GOMACTech 2025

~ EXHIBIT GUIDE ~

Welcome to the 49th Annual GOMACTech Conference

MICROELECTRONICS Full Throttle

Conference: 17–20 March 2025

Exhibition: 18–19 March 2025

Pasadena, CA

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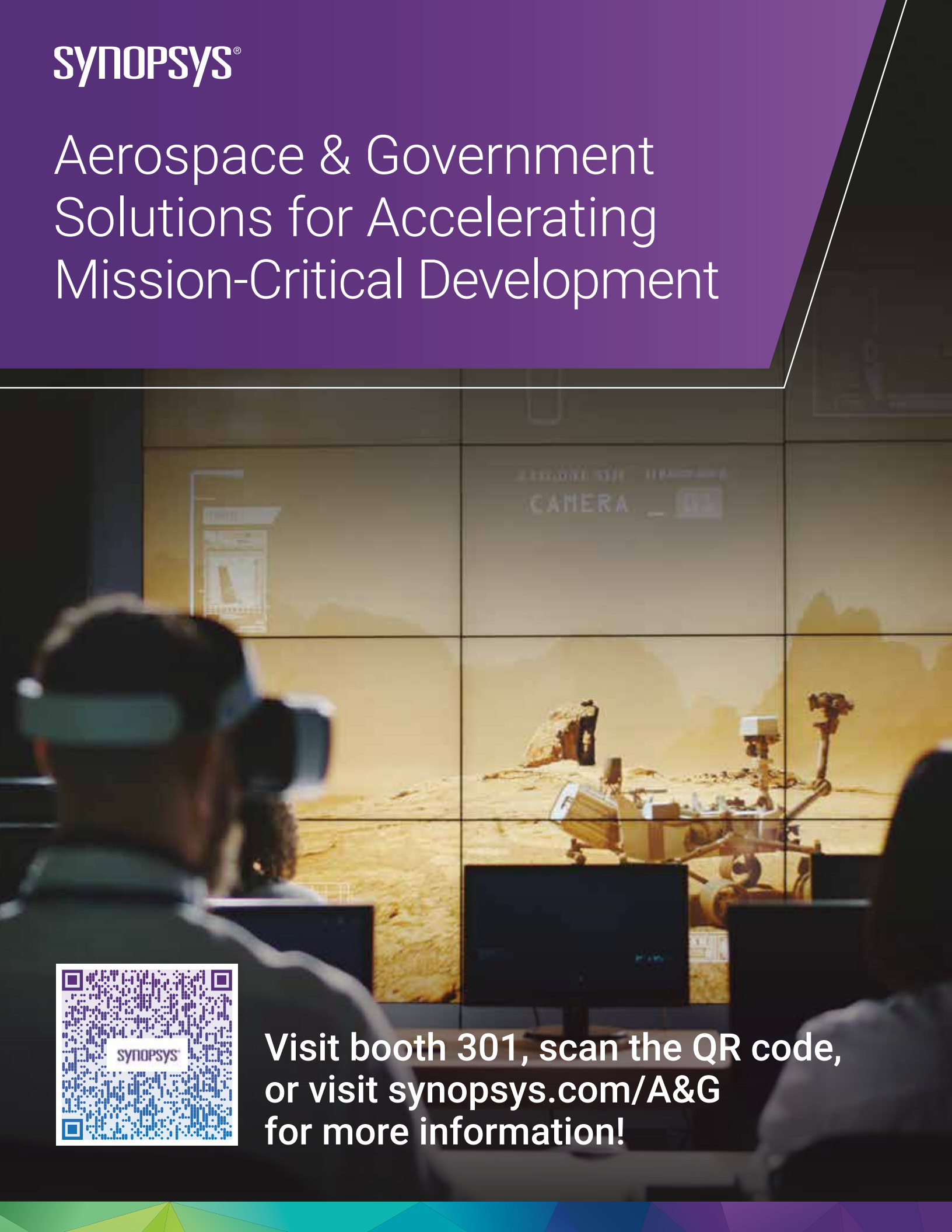


Visit booth 301, scan the QR code, or visit synopsys.com/A&G for more information!

3D Glass Solutions, Inc. **204**
3D Glass Solutions is a world-class expert on the fabrication of electronic packages and devices using photo-definable glass-ceramics. The company manufactures a wide variety of glass-based, system-in-package (SiP) devices and components using its patented low-loss photosensitive APEX glass ceramic technology for applications in RF electronics and photonics used in automotive radar, IC electronics, medical, aerospace, defense, wireless infrastructure, mobile handset, and IoT industries.

https://3dgsinc.com

AAA Test Lab **618**
AAA Test Lab is a leading provider of comprehensive semiconductor and electronic component testing services. With state-of-the-art facilities and a team of highly skilled engineers, the company specializes in delivering reliable testing solutions that adhere to the industry's most rigorous standards, including MIL-STD-202, MIL-STD-883, and MIL-STD-750. AAA Test Lab's capabilities encompass environmental, mechanical, and electrical testing, serving industries such as aerospace, defense, automotive, telecommunications, and medical devices. Its commitment to precision and quality ensures that every component meets critical performance and durability requirements.

www.aaactl.com

AARD Technology LLC **322**
AARD Technology is the North American representative for scia Systems GmbH, a German supplier specializing in plasma and ion beam process equipment. It offers systems for coating, etching, and trimming for the MEMS, microelectronics, and optics industries for high-volume manufacturers and R&D. Expert technical support ensures high-volume manufacturers enjoy maximum uptime.

https://aardtechnology.com

Accurate Circuit Engineering **601**
Accurate Circuit Engineering (ACE) is an AS9100, ITAR and Mil-Spec Certified manufacturer of high-technology quick turn PCBs. The company is an expert in RF, microwave, antenna, and hybrid constructions. With deliveries in as little as 24 hours, no one is faster. ACE is a small business and JPL flight approved and awarded. ACE has continued to stay on the leading edge of technology, offering only the best quality PCBs in the shortest amount of time. It also offers design and assembly, making ACE a full turnkey solution.

www.ace-pcb.com

AdTech Ceramics **514**
AdTech Ceramics is a fully integrated US manufacturer of alumina and aluminum nitride multilayer co-fired products. Products include metal to ceramic assemblies, QFN, PGA, and BGA packages. AdTech Ceramics specializes in mission-critical ceramics for challenging environments. Its 150,000 sq. ft. facility has the capacity to support prototyping to high-volume requirements.

www.adtechceramics.com

Advent Diamond, Inc. **216**
Advent Diamond is developing semiconductor technology beyond today's limits. It is commercializing diamond semiconductor materials and components to support innovation in telecommunication, electrification, and advanced sensing.

adventdiamond.com

AEM **408**
AEM is a manufacturer of circuit protection, semiconductors, and HF to mmWave components for commercial to aerospace and defense applications.

www.centralsemi.com

Akoustis **319**
Akoustis is a high-tech BAW, SAW RF filter and freq solutions company that is pioneering next-generation materials science and MEMS wafer manufacturing to address the market requirements for improved RF filters — targeting higher/tighter bandwidths, higher operating frequencies, and higher output power compared to legacy polycrystalline BAW technology. The company utilizes its proprietary and patented XBAW manufacturing process to produce bulk acoustic wave RF filters for mobile and other wireless markets, which facilitate signal acquisition and accelerate band performance between the antenna and digital back end. Superior performance is driven by the significant advances of poly-crystal, single-crystal, and other high purity piezoelectric materials and the resonator-filter process technology, which enables optimal trade-offs between critical power, frequency, and bandwidth performance specifications.

akoustis.com

Alphacore, Inc. **811**
The company's engineering and leadership team combines long histories of delivering innovative data converter, radio-frequency (RF), analog and mixed signal products, and complete imaging systems for critical systems, through business success at both startups and multinational *companies.*

www.alphacoreinc.com

Altera, an Intel Company **709**
Altera, an Intel Company, provides leadership programmable solutions that are easy-to-use and deploy in applications from the cloud to the edge, offering limitless AI possibilities. The company's end-to-end broad portfolio of products including FPGAs, CPLDs, intellectual property, development tools, system on modules, SmartNICs, and IPUs provides the flexibility to accelerate innovation. Its innovation of programmable logic started in 1983 in Silicon Valley. In 1984, Altera unveiled the world's first programmable logic device capable of being programmed, erased, and reprogrammed, altering the future of innovation.

www.altera.com

AMD **406**
AMD has 30+ years of continuous focus and heritage in A&D applications, with a history of government and industry partnership and collaboration, which has led to unique advancements in the capability, reliability, and security of XQ devices.

www.amd.com/en/solutions/aerospace-and-defense.html

AmTECH Microelectronics **123**
AmTECH Microelectronics is a contract manufacturing company located in Silicon Valley that specializes in complex microelectronics, advanced packaging, and SMT assembly. AmTECH's services include die bonding, flip chip (C4), thermocompression bonding, eutectic die bonding, wire bonding, heavy wire bonding, ribbon bonding, silver sintering, encapsulation, etc. The headquarters features a state-of-the-art clean room with equipment being added on a regular basis to help support leading-edge product design and manufacturing. AmTECH has been in business for over 30 years and has a strong team of engineers and management. The company is a proud service provider of prototype to medium volume on-shore manufacturing.

www.amtechmicro.com

Analog Devices, Inc. **101**
Analog Devices is a global semiconductor leader that bridges the physical and digital worlds to enable breakthroughs at the intelligent edge. ADI combines analog, digital, and software technologies into solutions that help drive advancements in digitized factories, mobility, and digital healthcare, combat climate change, and reliably connect humans and the world. With revenue of more than $12 billion in FY23 and approximately 26,000 people globally working alongside 125,000 global customers, ADI ensures today's innovators stay ahead of what's possible.

Analog.com

Ansys **317**
For more than 50 years, Ansys engineering simulation software has enabled innovators across industries to push boundaries using the predictive power of simulation. The next great leaps in human advancement will be powered by Ansys.

www.ansys.com

Astronics Test Systems **223**
Astronics Test Systems ensures optimal performance of mission critical systems through innovative test solutions. Leveraging 60 years' experience, it offers automatic test expertise to electronics manufacturers in aerospace, military, mass transit, urgent communications, and space industries. Its test solutions ensure the world's most advanced electronics perform as designed, every time.

www.astronicstestsystems.com

ASU **218**
Arizona State University is the home of the Southwest Advanced Prototyping Hub.

https://microelectronics.asu.edu/southwest-advanced-prototyping-hub/

Avalanche Technology **318**
Avalanche Technology is the space technology leader enabling the orbital internet. With a proven STT-MRAM portfolio at multiple geometry nodes combined with an intellectual property portfolio of over 300 patents and applications, Avalanche is the one of the only providers of scalable unified memory architecture for industrial, IoT, aerospace, and storage applications that are space-tested and proven. Avalanche's Perpendicular STT-MRAM technology is the frontrunner to replace traditional Flash and SRAM for unified memory architectures in future SOC systems, delivering high performance and low power with a path to continued scalability.

www.avalanche-technology.com

BAE Systems **309**

At BAE Systems, the company's dedication shows in everything it creates and delivers to support customers' missions of today and tomorrow … from the depths of the oceans, to the far reaches of space. The company's skilled people are providing world-class capabilities across air, land, maritime, space and cyber domains every day. As a proven partner with a rich legacy of innovation, it is investing and collaborating to develop ground-breaking inventions and discriminating technologies to defend our national security, protect our men and women in uniform, and contribute to the prosperity and sustainability of our local communities, our planet, and beyond.

www.baesystems.com/en-us/our-company/inc-businesses/electronic-systems

Battelle **608**

Battelle provides focused expertise and advanced R&D at the intersection of cyber and emerging technologies to secure our nation's most critical systems. Using its unparalleled expertise and advanced laboratory capabilities, Battelle has developed state-of-the-art trust and assurance tools and techniques to secure military and civilian microelectronics.

https://www.battelle.org/markets/national-security/cyber

Boeing **421**

Boeing is the world's largest aerospace company and a leading manufacturer of commercial jetliners, defense, and space and security systems, as well as a service provider of aftermarket support. As America's biggest manufacturing exporter, the company supports airlines and US and allied government customers in more than 150 countries. Boeing products and tailored services include commercial and military aircraft, satellites, weapons, electronic and defense systems, launch systems, advanced information and communication systems, and performance-based logistics and training.

www.boeing.com

Braun Electronic Components LLC **619**

Braun Electronic Components is a stocking distributor of COTS electronic components that are both currently produced and considered obsolete/previous generation(s).

www.braunec.com

Cadence **200**

Cadence is a pivotal leader in electronic systems design, building upon more than 30 years of computational software expertise. The company applies its underlying Intelligent System Design strategy to deliver software, hardware, and IP that turn design concepts into reality. Cadence customers are the world's most innovative companies, delivering extraordinary electronic products from chips to boards to systems for the most dynamic market applications, including hyperscale computing, 5G communications, automotive, mobile, aerospace, consumer, industrial, and healthcare. For 10 years in a row, *Fortune* magazine has named Cadence one of the 100 Best Companies to Work For.

www.cadence.com

CAST **310**

CAST provides digital IP cores that developers use to build FPGA and ASIC systems for defense, aerospace, automotive, industrial, medical, and consumer applications. Its product line features embedded processors (RISC-V, MCUs); security (PQC encryption & SoC solutions); interfaces (TSN, CAN, more); compression (data, image, video); networking (TCP, UDP, eMACs); and peripherals, protocol converters, and many other functions. USA-based and operating for over 30 years, CAST is ISO 9001:2015 certified and supports industry standards such as ISO 26262 and DO 254. CAST has provided a better IP experience for many hundreds of organizations, shipping several millions of product units.

www.cast-inc.com

Checkpoint Technologies **115**
Checkpoint Technologies designs and manufactures laser scanning microscopes and photon emission microscopes for semiconductor device physics analytics/failure analysis. Checkpoint Technologies' InfraScan LSM/PEM microscope product line includes laser probing, dual-beam LTM-S probing, visible laser probing, waveform acquisition, frequency mapping, photon emission, lock-in TIVA / OBIRCH, SIL technologies, dual SIL systems, femtosecond pulsed laser stimulus, 2-photon LADA, TR-LADA, and pulsed laser probing – to reflect its fundamental commitment to adapting technology to meet customer-specific needs within the field of semiconductor failure analysis and fault isolation.

www.checkpointtechnologies.com

Chip Scan, Inc. **517**
Chip Scan, based in New York City, is a provider of microelectronics assurance. Its specialty areas include cyber threat defense, microelectronics reverse engineering, space systems, and defending operational technologies. Chip Scan is accredited by the DMEA as a Category 1A Microelectronics Trusted Source. Chip Scan is also an awardee in the Anti-Tamper Executive Agent program for protection of critical program information. Its capabilities have been used to assure commercial and government systems, and its products are implemented and/or operational in commercial and military systems. Chip Scan also has strong core competencies in machine learning/AI driven reverse engineering, the recovery of critical design information for DMSMS, and the hardening of systems for anti-tamper.

www.chipscan.us

Codasip s.r.o. **721**
Codasip is a processor technology company enabling system-on-chip developers to differentiate their products for competitive advantage. Customers leverage the transformational potential of the open RISC-V ISA in a unique way through Codasip's Custom Compute offering: Codasip Studio design automation tools and a fully open architecture licensing model combine with a range of processor IP that can be easily customized. The company is proudly European and serves a global market, where billions of devices are already enabled by Codasip technology.

www.codasip.com

CoolCAD Electronics **411**
CoolCAD Electronics designs and fabricates wide bandgap silicon carbide (SiC) semiconductor transistors and integrated circuits (ICs) for applications in power electronics, green energy, high-temperature electronics and deep ultraviolet (UV) optical electronics. CoolCAD SiC semiconductor devices operate at temperatures up to and beyond 400°C, which is significantly above the 200°C capabilities of ordinary silicon-based chips. The company's team of scientists and engineers have developed proprietary SiC formulations and manufacturing processes for achieving superior performance with high temperature tolerance.

https://coolcadelectronics.com

Cycuity **511**
Accelerate semiconductor security with Cycuity. From microprocessors to SoCs and FPGAs, Cycuity's security solutions verify and validate semiconductor device security prior to manufacturing. Its software and services help accelerate the detection of security weaknesses to ensure mitigation pre-silicon. Its deep security expertise, unique Radix technology, and systematic and robust approach to hardware security verification help organizations identify and address security weaknesses across the design supply chain — from third-party IP (3PIP) to full chips and systems including firmware.

www.cycuity.com

DMEA TAPO **518**
The DMEA Trusted Access Program Office (TAPO) has been chartered by the US Government to find and maintain suppliers of Trusted microelectronic parts. TAPO brokers cost-effective access to Trusted suppliers of customized leading-edge microelectronic technologies to improve the security of mission-critical US Government information and operations.

www.dmea.osd.mil

DOD ATEA **801**
The DoD Anti-Tamper Executive Agent assists weapon system programs in achieving CPI resilience. CPI resiliency provides several benefits: 1) Prolongs combat effectiveness and the warfighter's advantage, 2) Maintains overall battlefield preeminence, 3) Mitigates the need for costly replacement programs, and 4) Enables investment in new capabilities. CPI resilience is the warfighter's last line of defense when a fielded weapon system is outside of US control.

https://at.dod.mil

Draper **219**
Draper is a non-profit engineering innovation company that solves some of the nation's most important challenges. With more than 2,000 employees working in collaboration across 13 campuses, Draper delivers transformative, mission-driven solutions that successfully meet customers' requirements. Its cutting-edge solutions enhance national defense, offering resilient positioning, navigation, and timing (PNT) systems and autonomous capabilities. It protects critical systems from emerging threats, empowering DoD and IC customers to achieve mission success with unmatched reliability and security.

www.draper.com

Edaptive Computing, Inc. (ECI) **122**
Edaptive Computing provides innovative solutions to optimize, automate, and integrate complex processes and systems. At GOMACTech, ECI is demonstrating its PCBAT solution that provides the capability to automatically generate a BOM from a PCB image.

www.edaptive.com

Eshylon Scientific **520**
Eshylon Scientific's electrostatic bonding technology is a groundbreaking approach that leverages the power of electrostatic forces to create strong, stable bonds between materials at a molecular level. This innovative method allows for the development of high-performance, durable materials that can be used across various industries, including healthcare, biotechnology, and materials science. By enhancing material integrity and functionality, electrostatic bonding opens up new possibilities for the design of advanced devices, sensors, and medical treatments, all while minimizing the need for traditional adhesives or chemical bonding agents.

www.eshylon.com

Evatec NA **206**
Evatec is a thin-film powerhouse. As a global leader in thin-film technology, it designs and manufactures production systems for industry, and its customized engineering solutions provide the equipment needed at the worlds' leading R&D and manufacturing facilities around the globe. Using its 70 years of process know-how, it supports customers with thin-film processes, leveraging advanced process control technologies for the best cost of ownership.

https://evatecnet.com

Everspin Technologies **103**
Headquartered in Chandler, Arizona, Everspin Technologies is a worldwide leader in designing, manufacturing, and commercially shipping discrete and embedded magnetoresistive RAM (MRAM) and spin-transfer torque MRAM (STT-MRAM) into markets and applications where data persistence and integrity, low latency, and security are paramount. With over 120 million MRAM and STT-MRAM products deployed in data center, cloud storage, energy, industrial, automotive, and transportation markets, Everspin has built one of the strongest and fastest growing foundations of MRAM users in the world.

www.everspin.com

Extreme Waves **400**
Extreme Waves was founded and is based in San Diego, CA. It develops high-performance custom phased-arrays and transceivers for SATCOM, 5G, and point-to-point communication links at 8-110 GHz, including X, Ku and Ka-band SATCOM, Ku-band CDL, and all of the 5G frequencies up to 110 GHz. Its product portfolio also includes low and medium power X, Ku and Ka-band radars (pulsed and FMCW) with multiple phase centers. SiGe and CMOS chip design services and chip design reviews are also available for partners. The company's customer list includes medium and large commercial and defense companies in the US, and several federal laboratories. Extreme Waves' team together has more than 100 years of aggregate experience in phased-arrays and transceivers, with many PhD-level RF engineers on staff.

www.extreme-waves.com

Falcon Electronics, Inc. **702**
Falcon Electronics is a Certified Small Disadvantaged Distributor of state-of-the-art semiconductor components, dedicated to the military and aerospace industry. Its suppliers have confidence in the company, and customers trust it. Falcon is proud to be considered an ally of both. Falcon, as an authorized distributor of key mil-aero suppliers, is dedicated to the highest standards of quality and its quality management system is ISO 9001:2015 and AS9120 Rev. B certified by NQA.

www.falconelec.com

Finetech **501**
Finetech manufactures and supplies sub-micron accuracy die bonders for die attach, advanced packaging, and micro assembly applications. Manual, semi-automatic motorized, and automated models provide a prototype to production pathway. High process flexibility within one platform allows a wide range of bonding technologies: thermo-compression, ultrasonic, eutectic, epoxy, sintering, ACF/ACP, indium, and precision vacuum die bonding. Application areas include optical packages, sensors, si photonics, microLEDs, Cu pillar, flip chip, chip-on-glass, chip-on-flex, package on package, MCM, MEMs, and more. Finetech also offers precision dispensers and advanced rework systems for today's challenging applications. The extensive process knowledge of Finetech's engineering team significantly enhances the value of its solution offering.

www.finetechusa.com

Frontgrade **323**
For more than six decades, the skilled thinkers, makers, and doers at Frontgrade have embraced the company's mission to solve complex technology challenges across the US and around the globe. As one of the largest providers of analog and radiation-hardened electronics for the aerospace, defense, and medical industries, Frontgrade offers a broad portfolio of off-the-shelf and customizable radiofrequency, microwave, and high-reliability microelectronic products and subsystems — as well as complete solutions across the signal chain, from aperture to digital conversion. From inception and development engineering to full-rate production and sustainment, Frontgrade stays in lockstep with you throughout your program lifecycle.

www.frontgrade.com

Georgia Tech Research Institute **617**
Georgia Tech Research Institute (GTRI) is a global leader in applied research and development with world-class engineers and scientists who solve some of the toughest problems facing government and industry. GTRI is uniquely positioned with Georgia Institute of Technology (Georgia Tech), a top American research university. GTRI has over 3,000 employees, with many of GTRI's experts recognized internationally in a vast array of research domains. Core research areas include test & evaluation; system development, engineering & prototyping; applied electromagnetics & materials research; secure information & communication systems; threat systems research & development; and client-inspired engineering.

www.gtri.gatech.edu

GlobalFoundries **102**
GlobalFoundries' annual Trusted Foundry Training attracts leaders and technologists from across the national security, aerospace, and defense industries. The invite-only event showcases the critical role of Trusted chip manufacturing for sensitive national defense applications, and highlights how essential chips securely manufactured by GF are enabling innovation and provide an efficient path to new technology development across a range of markets. Through technical sessions, panel discussions, and other presentations, attendees will hear straight from the source how GF Trusted manufacturing, its platforms and solutions, and its design enablement and turnkey services, when paired with its industry-leading IP offerings and design tools, are accelerating design cycles and enabling customers to speed up their time to market for new technologies.

Gf.com

Golden Altos Corp. **403**
Golden Altos is a QML provider of assembly services located in Silicon Valley (Fremont, CA). Golden Altos offers complete on-shore, in-house, high-reliability hermetic assembly for both monolithic and hybrid assemblies as well as qualification services for both hermetic and plastic ICs. It continually strives to deliver the finest products, services, and documentation through our own internal system, as well as regular certifications from government agencies. As a small business that has served the commercial, military, and aerospace industries for over 30 years, Golden Altos understands the importance of putting customers first because what it does matters.

www.goldenaltos.com

Graf Research Corp. **304**
Graf Research produces the Enverite EDA suite, FPGA assurance tools for security and functional safety. The Enverite EDA suite contains features that provide verification and auditing of FPGA build flows. Enverite PV-Bit verification evaluates the equivalence of an FPGA Bitstream and its physical netlist. Enverite Trace archiver creates and verifies a tamper-evident auditable digital thread as a design traverses the build flow. Enverite Retrace auditor authenticates and verifies integrity of a Trace digital thread and enables automated reproduction of the traced build. The Graf Research mission is to perform research, provide services, apply analytics, and create products that enable secure and high-performance embedded and adaptive computing solutions.

www.grafresearch.com

Honeywell Aerospace Technologies **714**
Products and services from Honeywell Aerospace Technologies are found on virtually every commercial, defense, and space aircraft. The Aerospace Technologies business unit builds aircraft engines, cockpit and cabin electronics, wireless connectivity systems, mechanical components, and more. Its hardware and software solutions create more fuel-efficient aircraft, more direct and on-time flights, and safer skies and airports.

https://aerospace.honeywell.com

HRL Laboratories LLC **800**
HRL is a state-of-the-art research facility in Malibu, California, that focuses on projects ranging from gallium nitride semiconductor fabrication to additive materials. With a 10,000 square-foot cleanroom, it is a trusted foundry utilized by commercial and DoD customers.

www.hrl.com

IBM **614**
IBM Consulting, Marquesas Program, utilizes decades of tradecraft expertise in the realms of semiconductor manufacturing, Trusted and Assured DoD semiconductor supply chain enablement, and classified information systems semiconductor design and release solution architecture. IBM continues to provide critical mission support and guidance to the DoD, its program offices, and its collaborative partners on both current needs and future technologies as part of the bridge from Trusted Foundry to the new Trusted and Assured space encompassing Quantifiable Assurance. The company prides itself on defining the necessary support and operational needs of both products and systems through the entire product lifecycle by synthesizing information assurance techniques, accredited infrastructures, and deeply integrated OPSEC planning to embed into commercial manufacturing flows and enable near commercial speeds and near-commercial turnaround times on defense-related articles.

IBM.com

Idaho Scientific **415**
Idaho Scientific is a specialized embedded security firm with a proven track record of solving the hardest cybersecurity, supply chain integrity, and anti-tamper problems with novel and scalable solutions. It has completed projects for national labs, federal research centers, the Pentagon, and dozens of companies. The company licenses its crypto, Root of Trust, Extension of Trust, and secure processing technology to ensure systems are built upon a trusted and secure foundation.

www.idahoscientific.com

IEEE Computer Society **616**
IEEE CS is the trusted organization dedicated to engaging the engineers, scientists, academia, and industry professionals from across the globe driving continued advancements in computer science and technology.

www.computer.org

Instec, Inc. **214**
Instec is a scientific instrument manufacturer focused on precision thermal and environmental control. Its products are compatible with virtually any optical measurement system and can be equipped with electrical testing features including electrical probers, all inside a controlled sample environment. Capabilities include DC probing from -190°C to 1,000°C, environmental control, Hall effect compatibility, fully custom tools, and unique RF probing features for 600°C+. Its technology is necessary for many applications including spectroscopy, electrochemical analysis, nanotechnology research, and more.

http://instec.com

Integra Technologies, Inc. **422**
Integra Technologies is a global leader in the sourcing, packaging, testing, and characterization of highly specialized, mission-critical semiconductor components and related value-added services for high-reliability (Hi-Rel) applications where dependability and failure-free performance are of paramount importance. Integra provides a span of in-house services and capabilities to support a broad variety of Hi-Rel components throughout the entire value-added life-cycle — from prototyping, through testing, and ultimately to volume production. More specifically, Integra specializes in semiconductor die prep, packaging, assembly, test, reliability qualification, and DPA and FA service for high-reliability applications.

www.integra-tech.com

Intel Corp. **215**
Intel, a world leader in silicon innovation, develops technologies, products, and initiatives to continually advance customer missions. Providing advanced manageability, security, and sustainable performance, Intel business-optimized technologies address the challenges and opportunities within the public sector today and tomorrow.

Intel.com

ISI **109**
ISI specializes in the development of micro-electronic modules with a focus on miniaturization and ruggedization of complex assemblies. Its comprehensive design and manufacturing capabilities enable rapid solutions for high-reliability applications, including the integration of smart sensors and the development of systems-in-package. ISI is a one-stop-shop for microelectronic module development with fast-turn prototyping and mid-volume production at its US-based, ITAR-registered manufacturing facility.

isipkg.com

JEOL USA, Inc. **315**
JEOL is the market leader in electron beam-based lithography, both mask and direct write platforms. JEOL also manufactures the highest end SEM, SEM/FIB, and automated S/TEM characterization systems. JEOL recently introduced a 3D printer capable of building objects in metals ranging from pure copper to pure tungsten. Its customer base spans quantum technologies, photonics, semiconductors, energy sectors, and life sciences. Celebrating its 75-year anniversary, JEOL continues to excel at customer satisfaction by offering guaranteed response times and guaranteed up times for the life of its instruments.

www.jeolusa.com

JRC Integrated Solutions **221**
A trusted provider to the DoD and its strategic deterrence and strategic defense missions, JRC has been dedicated to advancing technical capabilities in support of our nation's most important defense programs for 20 years. JRC specializes in aerospace systems engineering and R&D to solve complex problems for the DoD and other government agencies. It provides mission-focused, responsive, high-quality solutions, technologies, and capabilities, supporting national security priorities and the nuclear modernization mission. Its state-of-the-art Radiation Hardened Semiconductor Technology, featuring its patented LEAP Standard Cell Library and advanced simulation tools, is delivering reliable, mission critical microelectronics with unmatched performance for the most demanding aerospace defense environments.

www.jrcisi.com

JSTF - Jazz Semiconductor Trusted Foundry **320**
JSTF (a DMEA Trusted Accredited company) is a leading Trusted supplier serving the aerospace and defense industries, offering advanced on-shore semiconductor manufacturing services from .5um to 45nm through Trusted and ITAR access using the Tower Semiconductor technology portfolio in Newport Beach, San Antonio, Rio Rancho (Intel), and Bloomington, MN (Polar Semi). Critical technologies are offered, such as SiGe BiCMOS (high-speed and high-frequency applications like radar and telecommunications), Radiation-Hardened designs, SiPho, RF CMOS (supporting ROICs, mmWave, advanced sensors, communication devices, and imaging systems), and MEMS. ITAR access in Japan for 45nm and 65nm technologies is also available.

www.jazztrusted.com

Kansas City National Security Campus **519**
The Kansas City National Security Campus is one of eight sites that comprise the NNSA. Along with safeguarding the country's nuclear weapons, the KCNSC team is charged with leading other missions for the Department of Energy to include Nuclear Weapons Program, Global Security, and Supply Chain Management. The Global Security, a division of the Kansas City National Security Campus, is an engineering and manufacturing asset, safeguarding the nation with products and services that support response to global threats. Global security has 400+ personnel in Kansas City and Albuquerque supporting national security across multiple critical areas. With over 75 years of experience, the mission of KCNSC remains to deliver innovative national security solutions for generations to come.

https://kcnsc.doe.gov/

Keysight **300**
Keysight inspires and empowers innovators to bring world-changing technologies to life. As an S&P 500 company, it is delivering market-leading design, emulation, and test solutions to help engineers develop and deploy faster, with less risk, throughout the entire product life cycle. It's a global innovation partner enabling customers in communications, industrial automation, aerospace and defense, automotive, semiconductor, and general electronics markets to accelerate innovation to connect and secure the world.

www.keysight.com

Knowles Precision Devices **710**
Knowles Precision Devices has more than 40 years of experience developing RF and microwave components that meet the rigorous requirements for a variety of military, aerospace, telecommunications, and industrial markets. Whether you need a catalog part, build-to-print services, or custom components, Knowles performs special life testing, sectioning, and additional electrical measurements to meet the MIL standards aerospace and defense require. Its filters offer stable performance over a wide frequency range, from DC to 67+ GHz, and are rigorously tested to ensure the highest standards. Plus, its SMD components enable streamlined assembly for easy addition to your manufacturing process.

www.knowlescapacitors.com

Laser Thermal Analysis **516**
Laser Thermal is committed to simplifying and enhancing the way thermal measurements are made. Leveraging cutting-edge technology, its instruments deliver fast, precise assessments of material thermal properties, enabling customers to gain deeper product and material insights. Based in Charlottesville, Virginia, Laser Thermal is at the forefront of optical thermal measurements, spanning from nanometers to bulk materials. Its latest innovation is the TOPS thermal conductivity tool. This groundbreaking instrument measures thermal conductivity across solids, liquids, pastes, and gels, all in one instrument, with ease and speed, providing direct, reliable results in under one minute. TOPS is versatile, ideal for applications in microelectronics packaging, bulk materials, ceramics, thermal interface materials (TIMs), batteries, and advanced materials like thermal barrier coatings (TBCs).

www.laserthermal.com

LeWiz Communications, Inc. **615**
LeWiz is a government contractor specializing in rad-hard chips and IP cores supporting trusted deep nanometer silicon processes and aerospace applications. It provides comprehensive hardware/software solutions to target high-performance computing, time-critical networking (wired, wireless, time-triggered, time-sensitive), and strategic FPGA chips with leading, proven eFPGA technology. Its portfolio includes RISC-V, NOC/bridges, programmable I/O, high speed I/Os (LVDS, SerDes), accelerators, AXIS/AXI peripherals, HBM controller, and data movers.

www.lewiz.com

MACOM **211**
MACOM designs and manufactures high-performance semiconductor products for the telecommunications, industrial and defense, and datacenter industries. MACOM services over 6,000 customers annually with a broad product portfolio that incorporates RF, microwave, analog, and mixed signal and optical semiconductor technologies. MACOM has achieved certification to the IATF16949 automotive standard, the AS9100D aerospace standard, the ISO9001 international quality standard, and the ISO14001 environmental management standard. MACOM operates facilities across the United States, Europe, and Asia and is headquartered in Lowell, Massachusetts.

www.macom.com

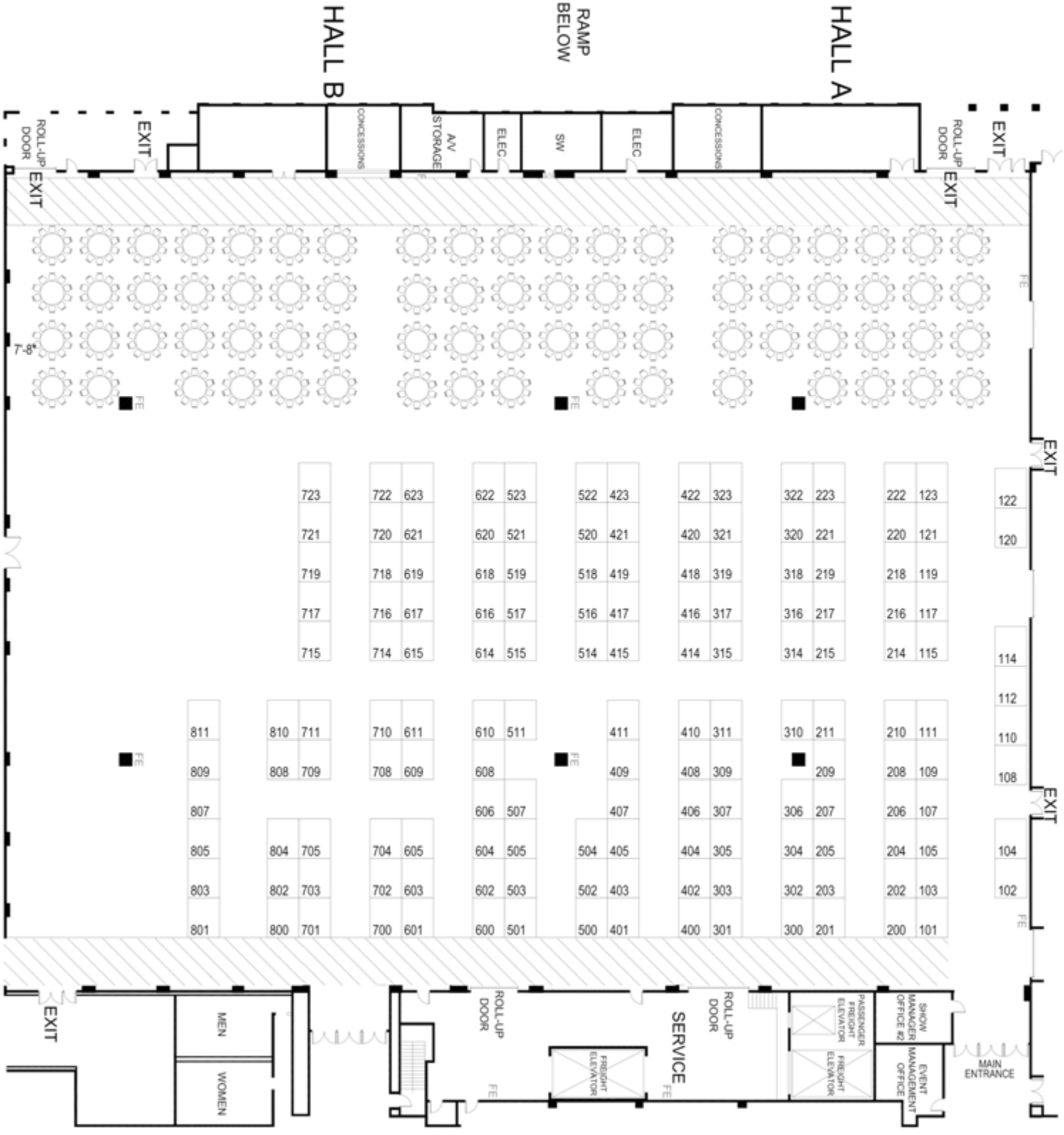
Menta eFPGA, Inc. **423**
Menta eFPGA is the market leader in design-adaptive embedded FPGA (eFPGA) IP for military and aerospace semiconductor applications. Its eFPGA technology provides flexible, reprogrammable logic for critical applications like telecom, satellite communications, and cryptography that require secure post-deployment reconfiguration and modernization. Menta's eFPGA IP is built using 100% standard cell technology, making it process node agnostic and the most flexible solution on the market. Available as both soft IP for rapid delivery and hard IP, Menta's eFPGA is silicon-proven across multiple popular and radiation-hardened process nodes. Menta's eFPGA IP technology has been licensed to Trusted Semiconductor Solutions to accelerate customer CMOS designs. To program the eFPGA logic, Menta offers the Origami Programmer, a highly flexible synthesis, place, and route tool available as a standalone application or API. This provides customers a complete, integrated solution for implementing Menta's field-reprogrammable FPGA technology.

www.menta-efpga.com

Mercury Systems **307**
Mercury Systems is a technology company that makes the world a safer, more secure place. It pushes processing power to the tactical edge, making the latest commercial technologies profoundly more accessible for today's most challenging aerospace and defense missions. From silicon to system scale, Mercury enables customers to accelerate innovation and turn data into decision superiority.

www.mrcy.com

GOMACTech-25 EXHIBITION FLOOR PLAN



GOMACTech 2025 Exhibitors

Company	Booth Number
3D Glass Solutions, Inc.	204
AAA Test Lab	618
AARD Technology LLC	322
Accurate Circuit Engineering	601
AdTech Ceramics	514
Advent Diamond, Inc.	216
AEM	408
Akoustis	319
Alphacore, Inc.	811
Altera, an Intel Company	709
AMD	406
AmTECH Microelectronics	123
Analog Devices	101
Ansys	317
Astronics Test Systems	223
ASU	218
Avalanche Technology	318
BAE Systems	309
Battelle	608
Boeing	421
Braun Electronic Components LLC	619
Cadence	200
CAST	310
Checkpoint Technologies	115
Chip Scan	517
Codasip	721
CoolCAD Electronics	411
Cycuity	511
DMEA TAPO	518
DOD ATEA	801
Draper	219
Edaptive Computing, Inc. (ECI)	122
Eshylon Scientific	520
Evatec NA	206
Everspin Technologies	103
Extreme Waves	400
Falcon Electronics, Inc	702
Finetech	501
Frontgrade	323
Georgia Tech Research Institute	617
GlobalFoundries	102
Golden Altos Corp.	403
Graf Research Corp.	304
Honeywell Aerospace Technologies	714
HRL Laboratories LLC	800
IBM	614
Idaho Scientific	415
IEEE Computer Society	616
Instec, Inc.	214
Integra Technologies, Inc.	422
Intel Corp.	215
ISI	109
JEOL	315
JRC Integrated Solutions	221
JSTF - Jazz Semiconductor Trusted Foundry	320
Kansas City National Security Campus	519
Keysight	300
Knowles Precision Devices	710
Laser Thermal Analysis	516
LeWiz Communications, Inc.	615
MACOM	211
Menta eFPGA, Inc.	423
Mercury Systems	307
Micrcohip Technology	810
Micropac Industries, Inc.	205
Microsanj	111
Micross	522
MIT Lincoln Laboratory	414
MITRE	701
MMEC	420
Mosaic Microsystems	622
MOSIS 2.0 | California DREAMS | USC/ISI	504
Movellus	605
MRSI Mycronic	715
Nano OPS, Inc.	523
Natcast	711
NHanced Semiconductors, Inc.	521
Nimbis Services, Inc.	503
Noble Metal Services	316
Northeast Regional Defense Technology Hub (NORDTECH)	703
Northrop Grumman	700
NSA Cybersecurity Collaboration Center	405
NSWC Crane	600
Omni Design Technologies	107
onsemi	720
PacTech USA, Inc.	314
Palomar Technologies	110
Penn State Applied Research Laboratory – Electronics Manufacturing Center	416
Photronics, Inc.	321
PQShield, Ltd.	402
Qorvo	203
QP Technologies	201
QuickLogic Corp.	306
Radiation Test Solutions	208
RAITH America, Inc.	112
Rambus	409
Raytheon	723
Real Intent	207
Red Balloon Security	407
Remtec, Inc.	209
S-Cubed	611
S2MARTS	604
Secure Micro Technologies LLC	305
SecureFoundry	404
Shibuya Corp.	419
Siemens	505
SiFive	121
Silicon Assurance	210
Silitronics Solutions, Inc.	120
Silvaco, Inc.	220
SkyWater Technology	401
Spectral Design and Test, Inc.	500
SRI International	515
StratEdge Corp.	623
Synopsys	301
Tektronix CSO	114
Tenet3	417
Triad Micro Devices	105
Trusted Semiconductor Solutions Inc.	222
Trusted Strategic Solutions	108
Trymax Semiconductor Equipment BV	610
UF | Florida Semiconductor Institute	117
Vitruvian Lab	603
YES Tech	520
Zero ASIC	119

AdTech Ceramics

WWW.AdTechCeramics.com

US Based Manufacturer

Co-fired Ceramic Electronic Packages

Certified AS9100D

NADCAP Certified

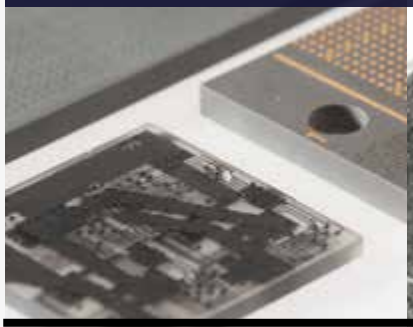
CUI Trained

Comprehensive high quality manufacturing processes

Aerospace, Defense, Medical and Industrial markets

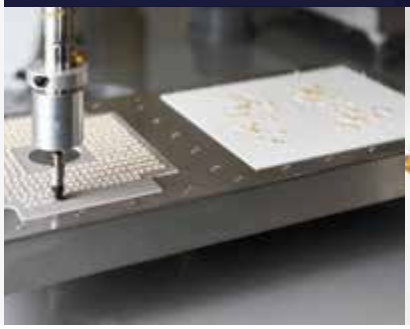
BOOTH 514

1 Aluminum Nitride

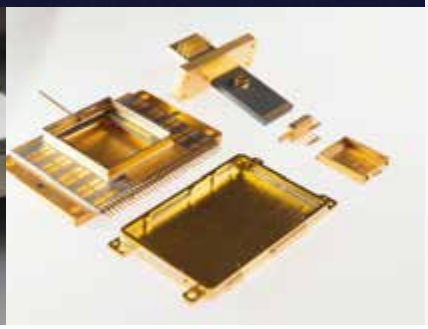


3 Alumina

2 Automation



4 Plating and brazing capabilities



Time-Sensitive Network **Time-Triggered Ethernet** **eFPGA**

Space, Air

Rad-Hard

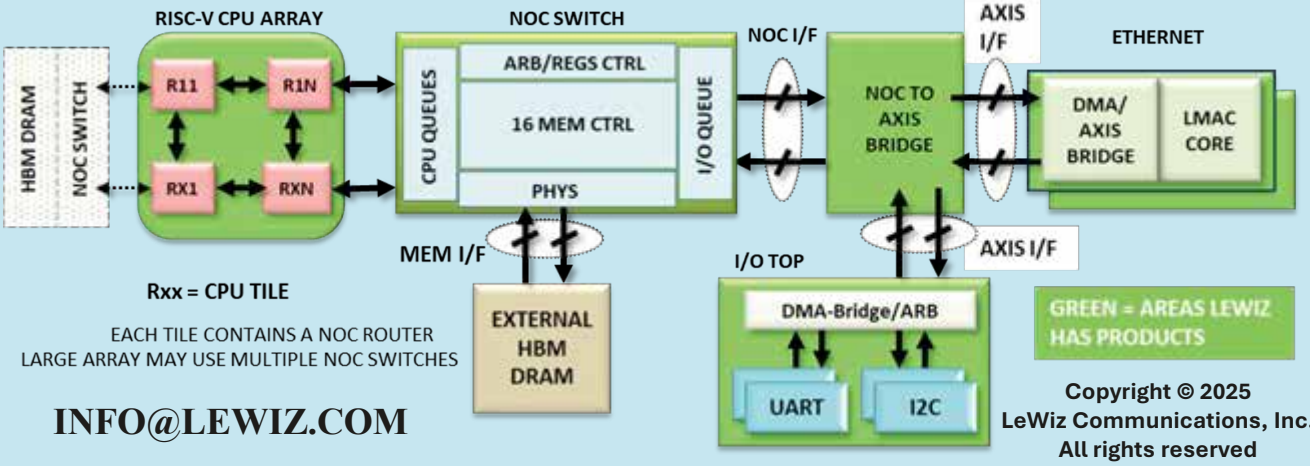
Ground, Sea

Avionic Networks

IP Cores

Custom Device

System-on-Chip



Rxx = CPU TILE

EACH TILE CONTAINS A NOC ROUTER
LARGE ARRAY MAY USE MULTIPLE NOC SWITCHES

INFO@LEWIZ.COM

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Microchip Technology **810**
Empowering your innovation is at the heart of Microchip Technology's mission. It is a leading provider of hardware, software, and tools for embedded applications, offering a wide range of microcontrollers, FPGAs, silicon carbide, analog solutions and much more. From secure IoT to capacitive touch, from solutions for industrial applications to automotive to aerospace, its comprehensive product portfolio and easy-to-use development tools enable designers to bring their ideas to life

www.microchip.com

Micropac Industries, Inc. **205**
Micropac Industries manufactures microelectronic and optoelectronic components and modules for the hi-rel industrial, medical, military, aerospace, and space markets. Certified to MIL-PRF-19500, MIL-PRF-38534, and AS9100, Micropac offers both standard and custom products including optocouplers, LEDs, and displays, proximity and Hall effect sensors, solid state relays and power controllers, and multichip modules.

micropac.com

Microsanj **111**
Microsanj manufactures high-sensitivity, high-spatial, fast-transient thermal imaging analysis systems for materials research, chip characterization and validation, and failure analysis.

www.microsanj.com

Micross Components **522**
Micross is one of the most complete providers of advanced microelectronic services and component, die, and wafer solutions. With the broadest authorized access to die & wafer suppliers, an extensive portfolio of hi-rel power, RF, optoelectronics, memory, data bus, logic, and SMD/5962 qualified products, and the most comprehensive advanced packaging, assembly, modification, upscreening, and test capabilities, Micross is uniquely positioned to provide unparalleled high-reliability solutions, from bare die to fully packaged devices including hermetic ICs/MCMs, PEMs, ASICs, FPGAs, and PCBs, to complete program lifecycle sustainment. For more than 45 years, Micross has been a trusted source for the aerospace, defense, space, medical, energy, communications, and industrial markets.

www.micross.com

MIT Lincoln Laboratory **414**
The Microelectronics Laboratory is a state-of-the-art semiconductor research and fabrication facility that supports the design, fabrication, and packaging of novel devices.

www.ll.mit.edu

MITRE **701**
MITRE applies systems thinking across government, industry, and academia to solve whole-of-nation challenges.

www.mitre.org

MMEC **420**
The MMEC microelectronics consortium leads the acceleration of microelectronic technologies and delivers solutions to establish a trusted and resilient domestic supply chain. The MMEC is the leading collaborative, public-private ecosystem that engages broadly across innovative partners in industry, academia, and government to rapidly advance defense and commercial applications. This unique environment empowers members to discover new technologies, share capabilities, develop a skilled workforce, and launch ground-breaking innovation into scalable commercial production for the benefit of national security and economic dominance.

www.mmeconsortium.org

Mosaic Microsystems **622**
Mosaic is a leading domestic provider of glass advanced packaging for microelectronics. Mosaic's glass substrates and interposers address evolving trends, offering increased interconnect density compared to organic interposers and with lower loss than silicon. Moreover, the burgeoning innovations in AI, chiplets, and heterogeneous integration are catalyzing a revolution in advanced semiconductor packaging. Mosaic's glass, characterized by its smooth surface enabling finer feature patterning and smaller vias, empowers designers to optimize performance, minimize power consumption, and enhance design flexibility.

www.mosaicmicro.com

MOSIS 2.0 | California DREAMS | USC/ISI **504**
Led by the University of Southern California Information Sciences Institute (USC/ISI), the Defense Ready Electronics and Microdevices Superhub (DREAMS) is one of eight regional innovation hubs established under the Department of Defense Microelectronics Commons Program. This strategic initiative is funded by the CHIPS and Sciences Act of 2022 to develop onshore microelectronics hardware prototyping. DREAMS unites academic and commercial organizations across Southern California and its partners across the United States with three goals: maturation of advanced RF technologies for rapid prototyping, lab-to-fab transition of semiconductor technologies, and training the next-generation of engineers in advanced RF and microelectronics technologies. The pioneering USC/ISI MOSIS Multi Project Wafer (MPW) fabrication services is at the core of DREAMS. MOSIS is a transformative service that has streamlined the end-to-end prototyping of microchips for educational, commercial and national security applications for over 40 years.

https://ca-dreams.org

Movellus **605**
Movellus is the infrastructure IP partner for high- performance, energy-efficient silicon. It provides solutions for clocking, droop detection, and power.

movellus.com

MRSI Mycronic **715**
MRSI Systems (a part of Mycronic Group) is a leading manufacturer of fully automated, high-speed, high-precision, and flexible eutectic and epoxy die bonding systems. It offers solutions for research and development, low-to-medium volume production, and high-volume manufacturing of photonic devices such as lasers, detectors, modulators, AOCs, WDM/EML TO-Cans, optical transceivers, LiDAR, VR/AR, sensors, silicon photonics, co-packaging optics, 3D hybrid packaging, and optical imaging products. With 40+ years of industry experience and its worldwide local technical support team, it provides the most effective systems and assembly solutions for all packaging levels including chip-on-wafer (CoW), chip-on-carrier (CoC), PCB, and gold-box packaging.

www.mycronic.com/product-areas/die-bonding

Nano OPS, Inc. **523**
Nano OPS offers a revolutionary additive manufacturing platform for the semiconductor industry, aptly named the Semiconductor Factory in a Box. This patented, versatile platform combines nano- and microscale additive manufacturing capabilities into a single, fully automated, high-throughput system. It supports the fabrication of devices using a wide range of materials, including semiconductors, metals, and dielectrics. Nano OPS's Semiconductor Factory in a Box provides a technology for making microelectronics, advanced packaging, displays, and sensors that does not utilize, vacuum, etching or chemical reactions. This disruptive technology enables high-end production at substantially lower capital and manufacturing costs.

www.nano-ops.net

Natcast **711**
Natcast is a purpose-built, non-profit entity designated to operate the National Semiconductor Technology Center (NSTC) by the Department of Commerce. Established by the CHIPS and Science Act of the US government, the NSTC is a public-private consortium dedicated to semiconductor R&D in the United States. The NSTC convenes industry, academia, and government from across the semiconductor ecosystem to address the most challenging barriers to continued technological progress in the domestic semiconductor industry, including the need for a skilled workforce. The NSTC reflects a once-in-a-generation opportunity for the US to drive the pace of innovation, set standards, and secure global leadership in semiconductor design and manufacturing. The mission of the NSTC is to serve as the focal point for research and engineering throughout the semiconductor ecosystem, advancing and enabling disruptive innovation to provide US leadership in the industries of the future.

https://natcast.org/about

NHanced Semiconductors, Inc. **521**
NHanced Semiconductors is a world leader in advanced 2.5D and 3D integrated circuits. The company has brought advanced packaging (AP) technology into low-volume manufacturing. NHanced works with dozens of companies developing next-generation sensors, photonics, and processors and also exploits the new Moore's Law concept of semiconductors – chiplets.

www.nhanced-semi.com

Nimbis Services, Inc. **503**
Nimbis Services is a technology-transition engine for US excellence. It supports the full trusted and assured technology-transition lifecycle, from research and development to acquisition, maintenance, and sustainment. The Nimbis Trusted Stratus is a dual-use modeling, simulation, and analysis (MS&A) platform accelerating the transition of microelectronics, manufacturing, and aerospace technologies. The platform's unique digital-twin capabilities supports radiation effects analysis, thermal analysis, and hardware-software co-verification, and more. Over the past 16 years, Nimbis has launched and implemented numerous projects and prototypes for the DoD and supported over 300 projects and 150 organizations. It is deeply experienced in the underlying cloud and on-prem high-performance computing, data, and networking infrastructures that support MS&A and digital engineering.

www.NimbisServices.com

Noble Metal Services **316**
Noble Metal Services offers high reliability precious metal reclaim: gold, silver, platinum, palladium, and iridium and source materials. It also offers production scrap, printed circuits, rags, wipes, jars, etch, ceramics, and cyanide solutions, including 100% destruction of your proprietary materials.

www.noblemetalservices.com

Northeast Regional Defense Technology Hub (NORDTECH) **703**
NORDTECH is a regional coalition of public and private sector experts in the Microelectronics Commons region in and around New York State, established in September 2023 as part of the first major award from the US CHIPS and Science Act. NORDTECH's five founding members who compose the leadership team and governance committee of the hub include: the New York Center for Research, Economic Advancement, Technology, Engineering, and Science (NY CREATES); the University at Albany College of Nanotechnology, Science, and Engineering (CNSE); Cornell University; Rensselaer Polytechnic Institute (RPI); and IBM. NORDTECH's board is advised by diverse participating member organizations, including small and medium semiconductor manufacturing companies, universities and community colleges, and major corporations that are service providers and leaders in semiconductor device design, fabrication, and production.

www.nordtechub.org

Northrop Grumman **700**
Northrop Grumman is a leading global aerospace and defense technology company. Its pioneering solutions equip customers with the capabilities they need to connect and protect the world, and push the boundaries of human exploration across the universe. Driven by a shared purpose to solve customers' toughest problems, its employees define possible every day.

www.northropgrumman.com

NSA Cybersecurity Collaboration Center **405**
The NSA Cybersecurity Collaboration Center is providing DoD small and medium sized companies free cybersecurity solutions to harness their networks. These are designed to help defend against nation-state threats that are targeting DoD entities.

nsa.gov/ccc

NSWC Crane **600**
The FPGA Assurance for Navy and Government Systems (FANGS) and Reverse Engineering Embedded Firmware (REEF) Labs of NSWC Crane provide technical expertise and tool solutions for securing DoD programs and systems. FANGS and REEF are part of JFAC for collaborating with other DoD entities while also collaborating closely with industry and academia. The REEF Lab supports firmware assurance throughout the product lifecycle using forensic and vulnerability analysis for firmware as well as firmware feature verification by utilizing binary extraction, disassemblers/decompilers, and debuggers. The FANGS Lab assures the entire FPGA lifecycle with SME support, V&V of performer tools, and R&D solutions. Tools presented at GOMACTech and developed by the FANGS Lab for FPGA Assurance include the Security Mitigation Enforcer (SeME) and Bitstream Analysis Toolkit (BAT).

www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Crane

Omni Design Technologies **107**
Omni Design Technologies is a leading provider of high-performance, ultra-low power IP cores, from 28nm down through advanced FinFET nodes, which enable differentiated system-on-chip (SoC), in applications ranging from 5G, wireline and optical communications, LiDAR, radar, automotive networking, AI, image sensors, and the internet-of-things (IoT). Its data converter (ADC and DAC) IP cores range from 6-bit to 14-bit resolution and from a few MSPS to more than 100 GSPS sampling rates. Omni Design, founded in 2015 by semiconductor industry veterans, has an excellent track record of innovation and collaboration with customers to enable their success. The company is headquartered in Milpitas, California with additional design centers in Fort Collins-Colorado, Bangalore-India, Hyderabad-India, Dublin-Ireland, Boston-Massachusetts.

www.omnidesigntech.com

onsemi **720**
onsemi pushes innovation to create intelligent power and sensing technologies that solve the most challenging customer problems. Its employees are inspired each day to increase stakeholder value through high-quality and high-value products and services.

www.onsemi.com/

PacTech USA, Inc. **314**
Packaging Technologies (PacTech) GmbH, established in 1995 and a group company of NAGASE & Co., Ltd., manufactures equipment for the microelectronic and advanced packaging industry and offers wafer level bumping and packaging contract manufacturing out of Nauen, Germany (HQ), and through subsidiaries. The equipment product line consists of solder jetting equipment (SB2-Jet), wafer-level solder ball transfer systems (Ultra-SB2), wafer-level solder rework equipment (Ultra-SB2 300 WLR), laser assisted (LAB, LCB, LAR) flip-chip bonders (Laplace) and automatic wet chemical lines for high volume electroless NiAu & NiPdAu bumping (PacLine 300 A50). The wafer level packaging and bumping subcontractor services consist of electroless Ni/Au, Ni/Pd and Ni/Pd/Au Under Bump Metallization (UBM) for either wafer level solder bumping for Flip Chip or WLCSP or for wire bond.

www.pactech.com

Palomar Technologies **110**
Palomar Technologies makes the connected world possible by delivering a Total Process Solution for advanced photonic and microelectronic device assemblies used in today's smart, connected devices. With a focus on flexibility, speed and accuracy, Palomar's Total Process Solution includes Palomar die bonders, Palomar wire and wedge bonders, and SST vacuum reflow systems, along with innovation centers for specialty OSAT/process development, and customer support services. Palomar delivers improved production quality and yield, reduced assembly times, and rapid ROI.

palomartechnologies.com

Penn State Applied Research Laboratory - Electronics Manufacturing Center **416**
The Electronics Manufacturing Center is the Office of Naval Research Electronics Center of Excellence located within the Penn State Applied Research Laboratory. Its core mission is to identify, develop, and execute projects that focus on the transition of electronics manufacturing technologies to naval ships, aircraft, submarines, and unmanned systems.

www.emc.psu.edu

Photronics, Inc. **321**
Photronics is a worldwide leader in photomask products and services, from mainstream nodes to leading-edge technologies, for integrated circuits and flat-panel displays. Global manufacturers rely on its expertise to ensure the quality and performance of their products.

www.photronics.com

PQShield, Ltd. **402**
PQShield is a cybersecurity company specializing in post-quantum cryptography. It is aiming to empower organizations to be crypto agile, with the ultimate quantum-resistant solutions, updating the world's technology supply chain, and staying one step ahead of the attackers.

https://pqshield.com

Qorvo **203**
Qorvo supplies innovative semiconductor solutions that make a better world possible. It combines product and technology leadership, systems-level expertise and global manufacturing scale to quickly solve customers' most complex technical challenges. Qorvo serves diverse high-growth segments of large global markets, including consumer electronics, smart home/IoT, automotive, EVs, battery-powered appliances, network infrastructure, healthcare and aerospace/defense.

www.qorvo.com

QP Technologies **201**
QP Technologies (formerly Quik-Pak) is a leading provider of microelectronic packaging and assembly, wafer preparation, and substrate design and development services. Its service offerings enable customers to target a range of end markets, including commercial, RF, power, industrial, automotive, medical, and mil-aero. QP Technologies leverages proven technologies developed by its skilled experts, who work closely with you to get your products to market quickly and in high volume. The company's in-depth and unique industry knowledge, combined with the personal relationship it creates with you, means you can count on it to be your trusted adviser and partner.

qptechnologies.com

QuickLogic Corp. **306**
QuickLogic, a trusted supplier in the aerospace and defense markets for nearly three decades, specializes in the design of programmable logic devices and embedded FPGA (eFPGA) and FPGA-based products, including Strategic Radiation Hardened (SRH) FPGAs. Its low-power, production-proven eFPGA enables in-field fast reconfiguration of ASICs and SoCs, facilitating over-the-air updates for evolving needs. The company's 100% open-source tools offer mil/aero/defense contractors complete toolchain visibility and long-term control, which secures critical intellectual property and ensures future support. QuickLogic's dedication to innovation within the defense and aerospace community reinforces its role as a leader in trusted, secure, SRH, and fast reconfigurable computing technology for defense applications.

www.quicklogic.com

Radiation Test Solutions **208**
The company offers radiation consulting and testing of electronics and materials for the space and defense industries.

www.radiationtestsolutions.com

RAITH America, Inc. **112**
RAITH is a global market and technology leader in maskless nanofabrication and characterization systems. Its comprehensive portfolio includes electron beam lithography, FIB-SEM systems, laser lithography, and advanced imaging solutions. With over 1,200 systems installed worldwide and serving 10,000+ users, the company enables breakthrough innovations in quantum technologies, photonics, semiconductors, and life sciences. Its solutions bridge the gap between R&D and production, supporting applications in connectivity, mobility, green energy, and healthcare. Headquartered in Germany with global operations including a US-based applications center, RAITH combines cutting-edge technology with four decades of expertise to deliver precision nanofabrication tools for both research institutions and industry.

www.raith.com

Rambus **409**
Rambus is a provider of industry-leading chips and silicon IP, making data faster and safer. With more than 30 years of advanced semiconductor experience, it is a pioneer in high-performance memory solutions that solve the bottleneck between memory and processing for data-intensive systems. Whether in the cloud, at the edge, or in your hand, real-time and immersive applications depend on data throughput and integrity. Rambus products and innovations deliver the increased bandwidth, capacity and security required to meet the world's data needs and drive ever-greater end-user experiences.

www.rambus.com

Raytheon **723**
Raytheon, an RTX business, is a leading provider of defense solutions to help the US government, our allies, and partners defend their national sovereignty and ensure their security. For more than 100 years, Raytheon has developed new technologies and enhanced existing capabilities in integrated air and missile defense, smart weapons, missiles, advanced sensors and radars, offensive and defensive cybersecurity tools, interceptors, space-based systems, hypersonics, and missile defense across land, air, sea, and space.

https://home.rtx.com/Bus/Raytheon

Real Intent **207**
Real Intent is a leading provider of EDA software to accelerate early functional verification and advanced sign-off of digital designs. Its static sign-off product capabilities include multi-mode clock domain crossing; multi-scenario reset domain crossing; multi-test mode DFT; multi-policy RTL linting, connectivity and glitch, hardware security, and formal linting. Real Intent products lead the market in performance, capacity, accuracy, and completeness.

www.realintent.com

Red Balloon Security **407**
Red Balloon Security is a leading security provider and research firm committed to defending embedded devices across a range of critical industries and shaping the future of the embedded security industry. Its expert team has pioneered foundational technologies, such as Symbiote and OFRAK, that help secure millions of embedded devices currently in service. Today, it continues to research, develop, and commercialize new capabilities to protect embedded systems manufactured globally. Additionally, its R&D team consists of world-class researchers and developers who publish seminal research papers in the fields of embedded security and intrusion detection. Red Balloon has led research activities funded by the US Government including DARPA, Department of Homeland Security, Air Force, and Navy.

https://redballoonsecurity.com

Remtec, Inc. **209**
Located in Canton, MA, and founded in 1990, Remtec specializes in the development of advanced and high-performance ceramic packaging, substrates, circuit boards, and components utilized across the electronics industry – and particularly well-suited for challenging high-power, high-circuit-density, and mission-critical applications. ITAR compliant, ISO-certified, and based in a newly renovated state-of-the-art facility that readily facilitates customers' current onshoring initiatives, Remtec is especially proud of its years-long relationships with leaders in the military/aerospace, semiconductor equipment, medical electronics, industrial electronics, and commercial telecom sectors. Finally, its current technology toolkit includes direct bond copper, active metal braze, precision thick-film, multilayer packaging and interconnects, and a vast range of materials.

remtec.com

S-Cubed **611**
Comprising a team of accomplished engineers and entrepreneurs, S-Cubed has a long history of designing and manufacturing innovative equipment for semiconductor lithography and allied industries. Its tools are deployed in fabs and labs throughout the world and are fully supported by its global service capability. The key advantage that S-Cubed holds over other wafer processing equipment manufacturers is that its modular architecture approach allows it to build exactly the machine you need for your throughput and wafer processing requirements.

www.s-cubed.com

S2MARTS **604**
Strategic & Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS), managed by NSTXL, is the premier rapid OT contracting vehicle for the DoD in trusted microelectronics, strategic and spectrum missions, and other critical mission areas. Naval Surface Warfare Center (NSWC), Crane Division created S²MARTS to grow and engage an elite network of innovators, shorten the path to defense prototype development, and advance national security efforts. S²MARTS is the contracting vehicle for Microelectronics Commons, passed by the CHIPS and Science Act to strengthen American manufacturing.

https://s2marts.org

SECURE MICRO TECHNOLOGIES

Secure Micro Technologies LLC **305**
Secure Micro Technologies offers embedded cybersecurity solutions for critical infrastructure like satellite systems, command and control systems, nuclear reactors, industrial control systems, and communication systems. The company conducts research and develops advanced technologies to enable secure microelectronics/electronics systems, including design, development, and deployment of secure processors, ASIC accelerators, radiation-hardened and high-performance FPGA-based designs, firmware, and secure software solutions. Secure Micro Technologies assists clients with agile digital design development, feasibility studies, FPGA and ASIC prototyping, cybersecurity posture assessments, compliance with ISO cybersecurity standards, and crypto-agility.

www.securemicro.com

SecureFoundry **404**
The company specializes in the development, sales, and commercialization of advanced microelectronics through cutting-edge technologies, including multi electron beam direct write lithography (MEB-DWL) systems. With a strong focus on innovation and precision, it provides industry-leading solutions for the semiconductor and microelectronics sectors. The MEB-DWL technology is a next-generation patterning tool that enables highly accurate and efficient direct-write lithography for producing intricate microstructures at nanoscale dimensions. By utilizing multiple electron beams in parallel, its systems dramatically enhance throughput and resolution, making them ideal for applications in advanced semiconductor manufacturing, photonic devices, MEMS (microelectromechanical systems), and more.

www.securefoundry.com

Shibuya Corp. **419**
Shibuya is a leading provider of advanced semiconductor manufacturing solutions, committed to driving innovation across the industry. Its portfolio features cutting-edge equipment, including solder ball mounters, flip chip bonders, and automated systems designed to meet the needs of next-generation packaging technologies. With decades of engineering expertise, it supports a wide range of applications, from photonics to integrated circuit packaging, ensuring precision, speed, and reliability.

www.shibuya.co.jp/en/semiconductor/index.html

Siemens **505**
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https://eda.sw.siemens.com/en-US/

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www.sifive.com

Silicon Assurance **210**
Silicon Assurance is a hardware security startup committed to pioneering EDA software technologies that excel in detecting, assessing, and mitigating security vulnerabilities in silicon chips designed by semiconductor and system companies. The distinctive feature of these technologies lies in their capacity to recognize threats before the critical chip fabrication stage. The company is a spinoff from the University of Florida and has been operational since 2021. It has secured multiple funding rounds from America's Seed Funds, Florida High Tech Corridor, and forged partnerships with renowned entities.

https://siliconassurance.com

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Silitronics offers IC package design, substrate fabrication, process development and assembly services. It is one of the only companies to provide fully automated active alignment for Silicon Photonics, FAU design + fabrication and co-package optical assembly for AI/ML, cloud, LiDAR and Silicon Photonics customers. Silitronics has fully automated equipment in a clean room 10K and 1K with ISO9001, ISO13485, ITAR and Mil-Std883 quality controls. Its team has the expertise to innovate, develop, and implement cost-effective design and assembly solutions from concepts to finished products. The company's key differentiated services are complicated process development and full turn-key services. Many of the NPI are so advanced that there is no precedence and they do not fit in a standard assembly. Often the design rules have to be pushed beyond the limit. This requires development of test vehicles, identification of right material sets, careful process control, monitoring of assembly parameters through well planned Design of Experiments (DOEs), and investments in new equipment.

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Silvaco is a provider of TCAD, EDA software, and SIP solutions that enable semiconductor design and digital twin modeling through AI software and innovation. Silvaco's solutions are used for semiconductor and photonics processes, devices, and systems development across display, power devices, automotive, memory, high performance compute, foundries, photonics, internet of things, and 5G/6G mobile markets for complex SoC design. Silvaco is headquartered in Santa Clara, California, and has a global presence with offices located in North America, Europe, Brazil, China, Japan, Korea, Singapore, and Taiwan.

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Spectral Design and Test, Inc. **500**
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www.spectral-dt.com

SRI International **515**
SRI International in Princeton, NJ (formerly Sarnoff Corp.), is the prime contractor for the DLA's Generalized Emulation of Microcircuits (GEM) and Advanced Microcircuit Emulation (AME) programs. The emulation programs provide a continuing source of form, fit, function, and interface replacements for non-procurable microcircuits.

gemes.com

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www.synopsys.com/aerospace-government.html

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https://triadmicrodevices.com

Trusted Semiconductor Solutions, Inc. **222**
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Trusted Strategic Solutions provides strategic recommendations to government and tech industry leaders. The company recognizes the increased global and national need for rare earth elements, microelectronics, semiconductors, and the vulnerabilities created by the increased needs. Trusted Strategic Solutions develops strategies alongside the US government and industry to overcome these challenges.

www.tss.llc

Trymax Semiconductor Equipment BV **610**
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UF | Florida Semiconductor Institute **117**
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https://fsi.institute.ufl.edu

Vitruvian Lab **603**
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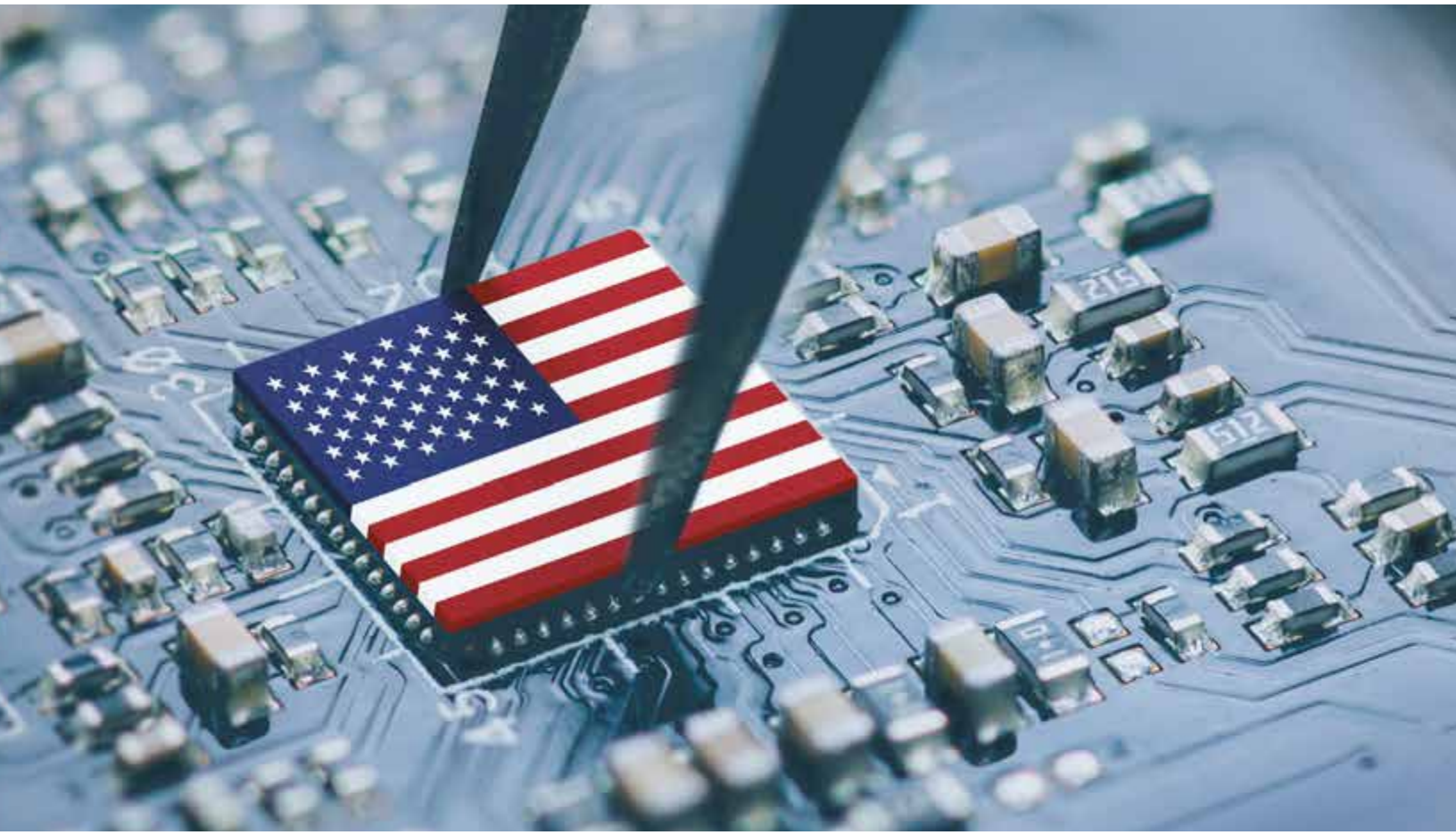

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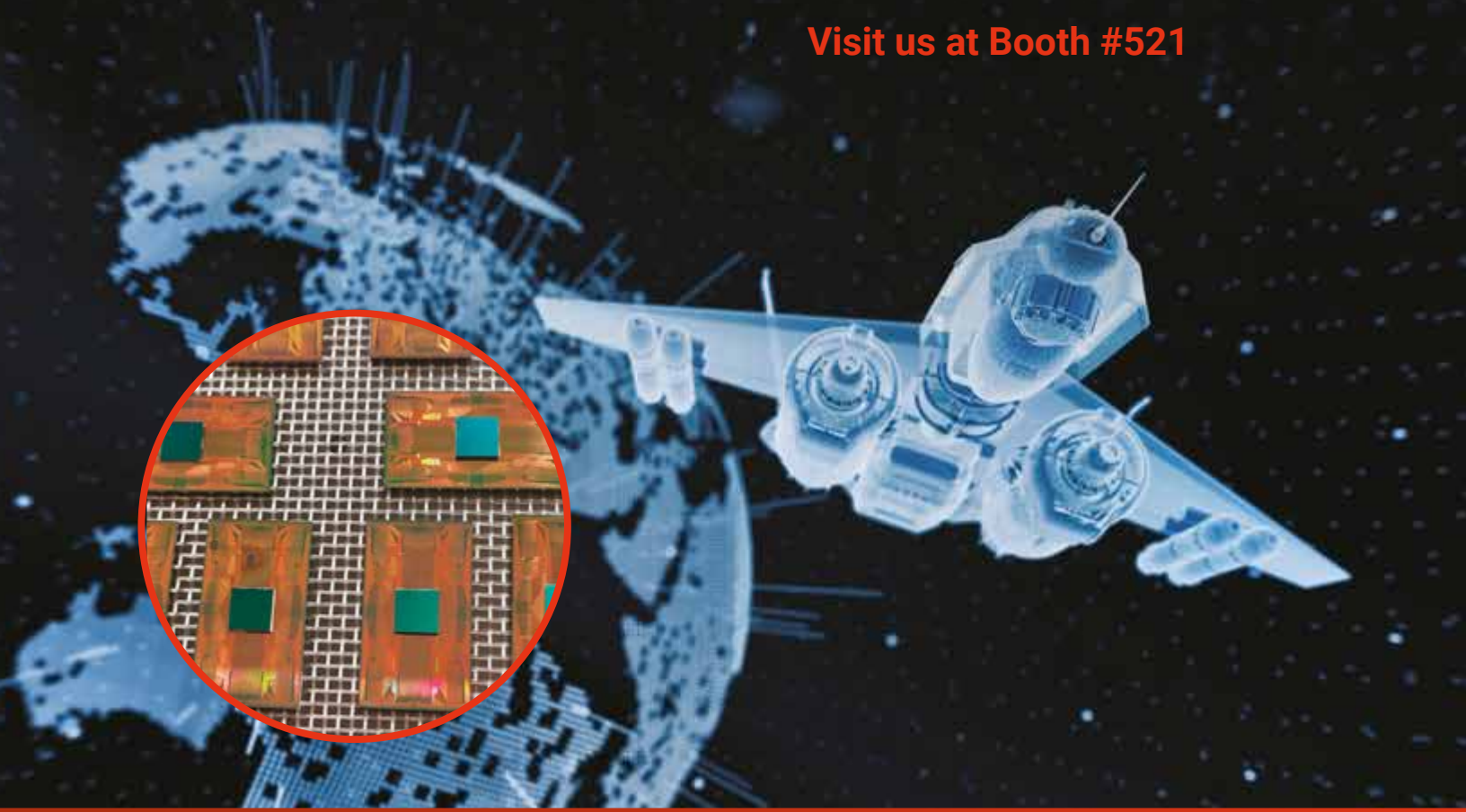

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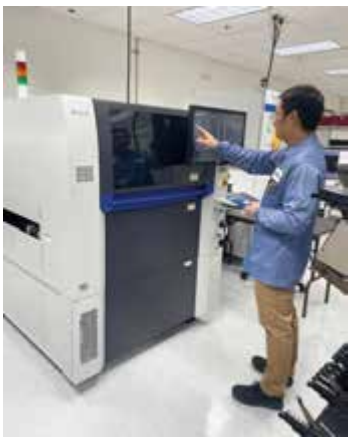

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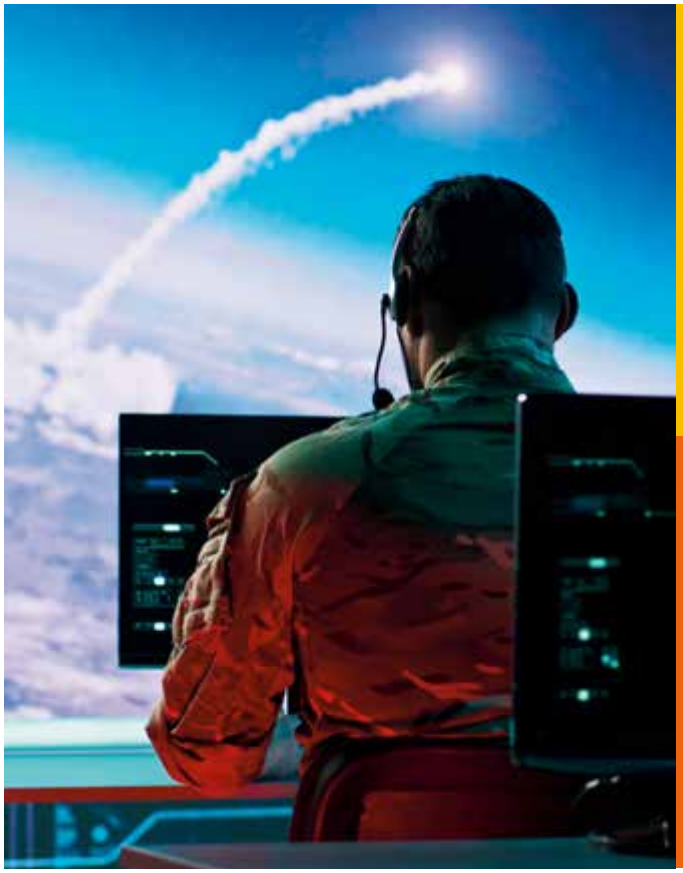

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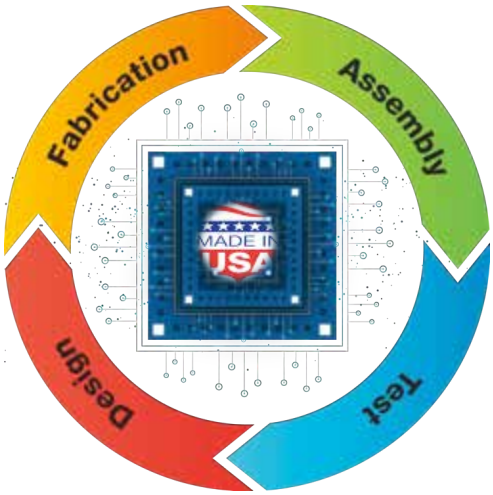

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