



July 2023 Highlights:

- Live Webinar on CMOS Fabrication (5th July, 2023)
- Digital India Dialogue-PLI2.0 (6th July, 2023)
- Webinar on Powering India's Semiconductor Manufacturing (25th July, 2023)
- RISC-V Road Show (25th July, 2023)
- SemiconIndia 2023 (25th July to 30th July 2023)

Dear Patrons,

Greetings from IESA,

In Gandhinagar, a historic event unfolded, marking India's ambitious journey in the semiconductor domain, with Gujarat leading as the first state to introduce a semiconductor policy in the country, setting the stage for unprecedented growth. SemiconIndia 2023, a prestigious conference inaugurated by Prime Minister Shri Narendra Modi on July 28th at Mahatma Mandir, laid the foundation for a thriving semiconductor ecosystem. The exhilarating five-day event commenced on 25th July, catering to academia and students, while the following three days, from 28th to 30th July, were dedicated to industry professionals, market leaders, and policymakers.

KEY HIGHLIGHTS OF THIS GROUNDBREAKING EVENT:

1. Prime Minister's Vision for India's Semiconductor Future: Prime Minister Shri Narendra Modi's inspiring vision has created a favourable environment for India's semiconductor industry to thrive. Technology firms now enjoy increased incentives and financial assistance for setting up semiconductor-manufacturing facilities in India.

2. Showcasing Contours of Indian Semiconductor Market and Future Trajectory: SemiconIndia 2023, themed "Catalysing India's Semiconductor Ecosystem," showcased India's comprehensive semiconductor strategy and policy. The conference aimed to attract investments and foster innovation, positioning India as a global hub for semiconductor design, manufacturing, and technology development.

3. Global Semicon Industry Leaders Participation: SemiconIndia 2023 witnessed active participation from industry giants, including Foxconn, Micron, AMD, IBM, Marvell, Vedanta, LAM Research, NXP Semiconductors, STMicroelectronics, and others. These prominent companies explored investment opportunities in India's semiconductor sector, fostering networking and lucrative business prospects.

PM Modi's quote, "This is the time for India, this is the time for the world," perfectly captures the spirit of SemiconIndia 2023. The event symbolizes a new era of progress and innovation in India's semiconductor industry, aiming to position the country as a global hub for semiconductor design and technology development.

SemiconIndia 2023 stands as a testament to India's unwavering determination to become a frontrunner in the global semiconductor landscape. With a strong emphasis on innovation, collaboration, and growth, India is poised to drive the world's fourth industrial revolution in the semiconductor domain as stated by PM. The journey has just begun, and the world eagerly watches as India embarks on this transformative path towards semiconductor excellence.

After the resounding success of SemiconIndia 2023, we are thrilled to continue our journey in India's ESDM domain with the upcoming 3rd edition of the AI Summit, scheduled to be held in Hyderabad on September 26th and 27th. Industry leaders are warmly invited to join us and contribute to making this event an even greater success. Let's together propel India's ESDM growth to new heights.



Yours Sincerely
Sanjay Gupta
Chairman, IESA



Yours Sincerely
K Krishna Moorthy
CEO & President, IESA

IESA AT SEMICON INDIA 2023



MoU with Gujarat State Electronics Mission (GSEM)

In a momentous occasion at Gandhinagar, a landmark MoU was signed between India Electronics and Semiconductor Association (IESA) and Gujarat State Electronics Mission (GSEM). The MoU paves the way for greater collaboration and the establishment of a fabless semiconductor ecosystem in Gujarat. The signing ceremony was graced by the presence of Gujarat's Hon'ble Chief Minister Shri Bhupendra Patel, Chief Secretary Shri Raj Kumar, Secretary Department of Science and Technology Shri Vijay Nehra, and Shri Videh Khare, Managing Director of GSEM.



Strengthening Uttar Pradesh's Semiconductor Industry

IESA signed an MoU with Uttar Pradesh Electronics Corporation, Department of IT and Electronics, Government of Uttar Pradesh and this partnership is set to further bolster India's semiconductor and electronics manufacturing industry. Shri Sanjay Gupta, Chairman of IESA, and Shri Akshay Tripathi, IAS, Special Secretary, Department of IT and Electronics, Government of Uttar Pradesh, jointly signed the MoU.



IESA demonstrated a Pivotal Role in Indo-US Collaboration

IESA also participated in an Indo-US meeting took place with the US Assistant Under Secretary, the Consulate team, and representatives from the Semiconductor Industry Association and the US Department of Commerce's National Telecommunications and Information Administration (NTIA) after a successful discussion on collaboration to strengthen the electronics and semiconductor ecosystem between the two governments.

GLIMPSES



SEMICONINDIA FUTURESKILLS BY IESA SHOWCASED AT SEMICON INDIA 2023

IESA's impressive exhibit at SemiconIndia 2023 showcased its successful ESDM Awareness & Skilling Program. The four-fold approach of Influence, Connect, Inspire, and Support received high a from industry leaders and academia. With a focus on fostering skilled talent, empowering self-reliance, mentoring students, and facilitating industry-ready skills, IESA is leading the way in building a strong and dynamic academia-industry symbiotic ecosystem across the country.

IESA's Semiconductor Nation - Campus Connect is a powerful platform that fosters industry collaboration and scalability for skilling. Kudos to Gujarat State Championship Council for hosting the RISC-V Roadshow, providing students exposure to Sand-to-Silicon and RTL Design through Layout and productization with Embedded Software. The events reached thousands of students from various institutes, ensuring no motivated student is left behind.



Semiconductor Nation Campus Connect
Aim is to inspire bright minds towards exciting career opportunities in ESDM

OUR 4-FOLD APPROACH:

- INFLUENCE:** Engage with industry leaders and academia.
- CONNECT:** Foster industry collaboration and scalability for skilling.
- INSPIRE:** Inspire bright minds towards exciting career opportunities in ESDM.
- SUPPORT:** Support placement efforts with internship placements.

STATE CHAMPIONSHIP COUNCIL:

- National Talent Search Program (NTSP) participation
- Industry sponsored Roadshows, Webinars, and Labs
- Centre of Excellence (CoE) advisory support (e.g. RISC-V, DSP, NVM, AI/ML)
- ESDM access and training arrangements for faculty and/or students
- Industry-ready sitting diploma in VLSI/Embedded design and Manufacturing
- Impartive direct teaching, enable remote learning, and curriculum review
- Enable soft-skill training seminars, technical paper writing, patent awareness
- Entrepreneurship & Innovation based startups - Startup Incubation and acceleration
- Guidance to institutes to improve NIRF ranking
- Connection with global institutes of repute for combined curriculum offering
- Support placement efforts with internship placements

4 PHASES OF CAMPUS CONNECT:

- Phase 0:** External connect with various IIS as an IESA Skills Champion
- Phase 1:** Visit university in person and establish relations and create student contact and trust
- Phase 2:** Invite University to hold an ESDM awareness program with faculty and student
- Phase 3:** Regularly visiting with requested offerings towards ESDM certification

ADVANTAGES OF PARTICIPATING IN THE INITIATIVE:

- Benefits for the Institution:**
 - Increase in ESDM awareness
 - Increase in ESDM participation
 - Increase in ESDM certification
 - Increase in ESDM placement
- Benefits for Faculties:**
 - Regularly visiting with requested offerings towards ESDM certification
 - Increase in ESDM awareness
 - Increase in ESDM participation
 - Increase in ESDM certification
 - Increase in ESDM placement
- Benefits for Students:**
 - Increase in ESDM awareness
 - Increase in ESDM participation
 - Increase in ESDM certification
 - Increase in ESDM placement

INSTITUTION FACILITY:

- Support for silicon tape-outs (shuttle/MPW)
- Industry expert guest lectures/workshops (hybrid or virtual)
- Technology/industry mentors for senior design projects/thesis
- Field trips to industry labs
- Enable connect for Faculty substantial
- State-of-the-art labs access for silicon-product testing, and characterization

STUDENT:

- Participation in industry events
- Field trips to industry labs
- ESDM Certification and industry placement through NTSP

IESA CHAPTERS

- Gujarat Chapter Launch 2022
- HCR Chapter Meet 2022
- Hyderabad Chapter Meet 2022
- Chennai Chapter Launch 2022
- Andhra Pradesh Chapter Launch 2022
- Bangalore Chapter Members Meet 2022

LEADERSHIP EVENTS

- Vision Summit - IES 2022
- SemiconIndia 2022
- Spacetrionics & DeFtronics
- Members Meet 2023

OTHER EVENTS

- IESA Automotive Event
- IESA AI Summit
- Tech Leadership Forum
- IESA Startup Summit

CORE INITIATIVE GROUPS (CIGs)

- AUTO:** The IESA Automotive CIG aims to give IESA a presence in Automotive electronics, Microelectronics, MEMS, IC and ESDM.
- AI/ML:** The AI/ML CIG aims to further the development of systems and chips needed for AI/ML, solutions coming from India. The IESA CIG members are creating awareness about AI/ML in semiconductor.
- SEMICONDUCTOR MANUFACTURING SUPPLY CHAIN:** As part of its plans to support and guide Indian students to semiconductor production in the whole semiconductor manufacturing supply chain, the IESA semiconductor manufacturing Supply Chain CIG is making significant contributions. It is an industry-led effort which will extend the facilities in the semiconductor manufacturing supply chain and call out the opportunities for the Indian market.
- SPACE & DEFENCE:** IESA has recognized Space & Defence as a great opportunity to continue its efforts to build and support the innovation, entrepreneurship and manufacturing ecosystem in the space and defence sector. The IESA CIG aims to build the necessary an ecosystem to meet India's SDG needs.
- MANUFACTURING:** The Manufacturing CIG aims to guide Indian industries to make a leap for the world. The Manufacturing CIG will bring support from semiconductor fabs, assembly, test, assembly, packaging (ATM), and to support the ecosystem.
- TALENT & SKILLS:** The Talent & Skills CIG aims to meet the needs from India by providing by bridging the gap between academia and the industry through up-skilling, training the resources, and through mentorship to train the supply demand gap.
- ESDM MARKET:** The ESDM Market CIG aims to meet academia from India by providing by bridging the gap between academia and the industry through up-skilling, training the resources, and through mentorship to train the supply demand gap.
- FACULTY RISE & SYSTEM STARTUPS:** The IESA Faculty Rise & System Startups CIG aims to meet the needs from India by providing by bridging the gap between academia and the industry through up-skilling, training the resources, and through mentorship to train the supply demand gap.

MESSAGE FROM OUR CHAIRPERSON

"I'm deeply honoured to assume the new role as a Chairman position of IESA. I would be determined to drive strategic partnerships between industry, academia, and government to unlock the full potential of this sector along with supporting startups and emerging players in the industry, thereby fueling innovation and entrepreneurship and contributing towards realising the 'Make in India' dream in electronics. I look forward to collaborating with industry leaders and stakeholders to create a positive impact and drive innovation in the Indian Semiconductor industry."

Sanjay Gupta
Chairman, IESA

OUR 4-FOLD APPROACH

- INDUSTRY
- GOVERNMENT
- ACADEMIA
- SOCIETY

Semiconductor Nation Campus Connect

JOIN US TODAY

Visit: iesonline.org/campus-connect
Contact us: iesaskills@iesonline.org

Digital India Dialogue PLI 2.0 at Bengaluru

In collaboration with the Ministry of Electronics & Information Technology, IESA organised the Digital India Dialogue PLI 2.0 for IT hardware in Bengaluru on July 6th. The event was honoured by the presence of the esteemed Union Minister, Shri Rajeev Chandrasekhar, who launched the product "vsdsquadron" during this noteworthy program. VSD's product garnered widespread acclaim as the exclusive product-based VLSI learning platform, proudly supported by IESA.



Webinar on Powering India's Semiconductor Manufacturing

25TH JULY, 2023 | 10:00 AM IST

Why Should You Attend?

- This virtual event provides an opportunity to stay informed about Synopsys Smart manufacturing solutions and how technologies are enabling the leading semiconductor fabrication companies.
- This year, India is placing special focus on building Semiconductor Fabrication technology. This session will provide insights into how Synopsys manufacturing solutions can enable technology development for Fabs.



SRINIVAS RAGHVENDRA
VP Engineering,
Mask Solutions & Smart Manufacturing,
Synopsys

Webinar on Powering India's Semiconductor Manufacturing

The webinar held on 25th July, hosted by Srinivas Raghvendra, VP Engineering, Synopsys, in collaboration with IESA, was a tremendous success. The webinar saw the participation of IESA leadership, SAL leadership, incubated companies, and academic leaders. Attendees had the opportunity to learn about Synopsys' Smart manufacturing solutions and their role in supporting India's focus on building Semiconductor Fabrication technology. The session facilitated exploring partnerships and possibilities for workforce development, empowering FAB Tech development processes.

Embark on a Semiconductor Odyssey with the RISC-V Roadshow - Power Unleashed!

IESA's PAN-India RISC-V Roadshow in Gujarat on July 25th, in collaboration with Semiconductor Nation - Campus Connect, eInfochips (An Arrow Company), VLSI System Design, and GSEM, witnessed enthusiastic participation from students, professors, and professionals. The hands-on experience with vsdsquadron RISC-V educational boards, supported by Dr. Pradip Thaker's donations, marked a milestone in India's semiconductor journey. This roadshow signifies a bright and promising future, reshaping the semiconductor landscape with innovation and collaboration.



IESA Moderated Panel Discussion in Semicon India 2023

IESA's Chairman, Mr. Sanjay Gupta, moderated a panel discussion at SemiconIndia 2023, evaluating India's Semiconductor Manufacturing Readiness on 30th July. Titled "Readiness Assessment: Is India ready to be a semiconductor manufacturing hub?" The session convened key decision-makers, state government representatives, and industry experts for a productive and insightful discussion, yielding positive outcomes.

IESA Empowering India's Skilling Ecosystem at Akhil Bhartiya Shiksha Sangam 2023

The Akhil Bhartiya Shiksha Sangam event held on the 29th and 30th of July 2023 was a resounding success, bringing together esteemed panelists and experts to discuss 'Creating a synergy between Education and Skilling future of work.' Among the distinguished participants, Mr. Sanjay Gupta, Chairman of IESA, shared his valuable insights and stated "Education and skilling are the cornerstones of a prosperous nation. The event, jointly organized by the Ministry of Education and Ministry of Skill Development and Entrepreneurship celebrated the 3rd anniversary of achievements of the National Education Policy and further strengthened India's vision of becoming the skill capital of the world.



STARTUP / MSME OF THE MONTH

August 2023



Company Name: MAXVY TECHNOLOGIES

Company Location: Bengaluru, Karnataka

Website: www.maxvytech.com

E-Mail: info@maxvytech.com

Overview: MAXVY is a fast growing fabless semiconductor company which is currently engaged in the fields of RTL design and Verification IP Solutions.

Projects:

1. DDR5 SOLUTION:

- JEDEC SPD5 HUB INTERFACE
- JEDEC PMIC BASIC INTERFACE IP
- JEDEC DDR5-RCD01 INTERFACE IP
- JEDEC TEMPERATURE SENSOR INTERFACE IP

2. AUTOMOTIVE SOLUTION:

- MIPI DSI2 TRANSMITTER
- MIPI CSI2 TRANSMITTER
- MIPI CSI2 RECEIVER
- MIPI APHY
- MIPI CPHY
- MIPI DPHY



Company Name: E-lagori

Company Location: Bengaluru, Karnataka

Website: www.e-lagori.com

E-Mail: contact@e-lagori.com

Overview: E-LAGORI is a modular electronics development platform for hardware system developers in startups, RnD organizations and academic institutions to create innovative large systems without worrying about circuit details. It provides seamlessly connectable modules with advanced functionality.

It enables you to develop prototype your dream system without the hassles of circuit development.

The platform provides wide range of boards ranging from instrumentation amplifiers to microphone arrays and a convenient way to connect them without any wires.

Products:

- Sensors & Interfaces
- Digitizing & Computation
- Actuator Module
- Accessories & Interfaces
- Kits

Save the Date

IESA AI Summit | 26 & 27 September 2023 | Hyderabad

Stay tuned for more updates..