



Confederation of Indian Industry

9TH SMART MANUFACTURING SUMMIT 2024

Shaping the Future of Manufacturing
with Digital Powered Innovation

Friday
13 December 2024
0900-1600 Hrs
New Delhi

SUMMIT BOOKLET

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Programme

0900-1000 Hrs Registration

1000-1100 Hrs Opening Session

Globally, manufacturing is traversing new domains led by disruptive changes in technology and breakthrough innovations. Smart Manufacturing is driven by human centric transformation, Artificial Intelligence, Internet of Things and Advanced Robotics, merging the physical, digital, and biological worlds.

Digitalization is penetrating all market segments and will be the key process for organizations to stay globally competitive. Sustainability and the shift towards newer and higher skills is now being added as a future paradigm and is essential to become an integral part of organizations' strategy.

The Summit will address the crucial aspects such as enhancing global competitiveness, sustainable manufacturing, and developing ecosystem for new age manufacturing.

Welcome Remarks Mr Dilip Sawhney

Chairman

CII National Committee on Smart Manufacturing, and Managing Director, Rockwell Automation India Ltd

Context Setting Mr C V Raman

Chairman

CII Smart Manufacturing Summit, and Member - Executive Committee, Maruti Suzuki India Pvt Ltd

Address Mr Anish De

Global Head of Energy, Natural Resources and Chemicals, Partner, KPMG in India

Release of Report

“Industry 4.0 Adoption and Strategic Roadmap for Indian Manufacturing”

Address Mrs Anjali Singh

Co-Chairperson

CII National Committee on Smart Manufacturing, and Executive Chairperson, ANAND Group India

Closing Remarks Mr Dilip Sawhney

1100-1200 Hrs Panel Discussion on Smart Manufacturing for Global Competitiveness

Implementing smart manufacturing strategies can significantly boost a company's competitive edge on a global scale. With human in loop manufacturing with advanced monitoring and analytics ensure quality control and enhanced productivity.

The panel will explore the key drivers to enhance Indian manufacturing competitiveness. It will explore opportunities for manufactures to collaborate and develop strategies for developing global value chains. The panel will delve into robotics and capabilities to scale up global competitiveness.

- *Increasing the share of high-value manufacturing*
- *Develop self-sufficiency for competitiveness*
- *Enabling upskilling ecosystem*
- *Real-world case studies of Smart Factory Transformation*
- *Manufacturing for MSMEs including low-cost automation*

Moderator:

- Mr Anup Wadhwa, Director, Automation Industry Association (AIA)

Presentation:

- Mr Gyan Prakash, Chief Automation (One IT), Tata Steel Ltd

Panellists:

- Mr T D Vaidyalingam, Chief Digital Officer HEIC, L&T Heavy Engineering
- Prof Sunil Jha, Professor, Department of Mechanical Engineering, IIT Delhi
- Mr Madhusudan N Kestur, Director, Ace Micromatic Group
- Mr V Jagannath, Chief Operating Officer, m2Nxt

1200-1300 Hrs Giga Factory for Digital Powered Innovation

1200-1220 Hrs

Spotlight Session:

- **Mr Rajiv Gandhi**
Member - Executive Board Special Projects, Maruti Suzuki India Pvt Ltd

With

- **Mr Dilip Sawhney**
Chairman, CII National Committee on Smart Manufacturing, and Managing Director, Rockwell Automation India Ltd

1220-1300 Hrs

Panel Discussion:

New age industries to manufacture EV batteries, solar panels, electronic chips for advanced computing will create new pathways for Indian manufacturer to take global leadership.

The panel will explore strategies to amplify human capability, develop ecosystem to shape India's position in new age manufacturing. The Panel will discuss the balancing ways of achieving precision and volume.

- *Achieving precision and volume – A key for growth in digital powered innovation*
- *Addressing workforce upskilling for the digital powered innovation environment*

Moderator:

- Mr Sandeep Chittora, Technical Director, KPMG

Presentation:

- Mr Sudeep Agarwal, Sr Vice President - Head of IT & Digital, ReNew Power

Panellists:

- Mr Pokala Sreekanth, General Manager - Project Planning, Ashok Leyland Ltd
- Mr Sundar Pelapur, Head - Customer Engineering - Conglomerates Business, Google

1300-1400 Hrs Networking Lunch

1400-1500 Hrs Panel Discussion on AI and Digital Transformation for Global Supply Chains

AI and digital transformation are revolutionizing global supply chains by enhancing efficiency, resilience, and sustainability.

The panel will discuss practices crucial for building resilient supply chains that can adapt to disruptions and meet the demands of a rapidly changing global market.

- *Adoption of AI - SME as key pillar for global supply chains*
- *Supply chain digitalization for enhancing performance and resilience*
- *Manufacturing in the age of AI*

Moderator:

- Mr S Devarajan, Sr Vice President (Advanced Manufacturing), TVS Motor Company

Presentation:

- Dr Asim Tewari, Professor (HAG) - Department of Mechanical Engineering and Faculty member - Center for Machine Intelligence and Data Science (C-MInDS), IIT, Mumbai

Panellists:

- Mr Sreenivasa Chakravarti, Vice President, IoT & Digital Engineering, Tata Consultancy Services (TCS)
- Mr Gaurav Kataria, Vice President Digital (Manufacturing) & Chief Digital and Information Officer (CDIO), ITC Paper Boards Ltd
- Mr Bimal Puri, Senior Vice President & CIO (Fluoro Chemicals & Technical Textile Business), SRF Ltd

1500-1600 Hrs Panel Discussion on Smart Manufacturing for Circular Economy and Sustainability

Increased global warming and environmental concerns have made sustainability a must have for business continuity. Manufacturers across the globe are considering material substitutions which are environmentally friendly, reprogrammable and self-healing.

The panel will discuss circular economy practices, implementation of AI and IoT to manage energy consumption, reducing environmental impact.

1. *Advanced Materials and recycling at end of life for circular economy*
2. *Energy transition of business towards adoption of sustainable practices*
3. *Product electrification and decarbonization*
4. *Strategizing green manufacturing*

Moderator:

- Mr Saurabh Bhatnagar, Partner, KPMG

Presentation:

- Mr Asim Prasad, Chief General Manager, Gas Authority of India Ltd (GAIL)

Panellists:

- Mr Aman Kirloskar, Vice President, Kirloskar Pneumatic Mfg Co Ltd
- Dr Raju Goyal, Executive President, Chief Technical and Sustainability Officer, Ultratech Cement Ltd
- Mr Ankur Pancholi, Business Manager- Software & Control, Rockwell Automation India Pvt Ltd

**1600 Hrs
Onwards**

Networking Tea & End of the Summit

Speaker Profiles



Mr Dilip Sawhney
Chairman
CII National Committee on
Smart Manufacturing, and
Managing Director, Rockwell
Automation India Ltd

Dilip is responsible for leading Rockwell Automation's India business – developing the market, creating partnerships and building a team that serves customers across industries, all over the country. Dilip has three decades of experience in Industrial Automation & Healthcare technology industries.

He joined Rockwell Automation in August 2008. He graduated with Honors in Electrical Engineering from IIT Roorkee.

Dilip began his career in with Larsen & Toubro Ltd thru their GET program. In 1995 Dilip joined GE as Sales Manager with GE Fanuc and grew to the position of country CEO through roles of increasing responsibility in India and the USA. In 2005 Dilip moved to GE Healthcare as Vice President – Sales for South Asia from where he moved to Rockwell Automation in his current assignment.

Dilip is passionate about Smart Manufacturing. He has been the past President of Automation Industry Association (AIA) and was recently the Co-Chair of CII's Smart Manufacturing Council.

Dilip is married to Anju and they live in New Delhi with their two daughters.



Ms Anjali Singh

Co-Chairperson, CII National
Committee on Smart
Manufacturing, and Executive
Chairperson,
ANAND Group India

AMrs. Singh is the Executive Chairperson of the ANAND Group, a US \$2-billion-plus conglomerate of 24 companies, including 14 joint ventures companies, which employees over 21,000 people in India. Additionally, she is the Executive Chairperson of the ANAND Executive Board.

At the group company's level, she is the Executive Chairperson of Gabriel India Limited, more than 60-year-old public-listed flagship company of the group known for pioneering the ride control products industry in India. She is the Chairperson of Dana Anand India, a joint venture between ANAND Group and Dana Incorporated, USA.

Demonstrating a strong industry connection, Anjali holds key portfolios in various industry bodies. She serves as an Executive Committee Member of the Automotive Component Manufacturers Association of India (ACMA) and is the Chairperson of its Western Region. Additionally, she holds various positions in the Confederation of Indian Industry (CII), serving as a Member of the CII Northern Regional Council and the CII National Council. Anjali is also a member of the Tata Motors Supplier Councils for Passenger Vehicles, Electric Mobility, and Commercial Vehicles. Furthermore, she is an Executive Committee Member of the Maruti Suzuki Suppliers Welfare Association (MSSWA). Anjali was also associated with the CII Haryana State Council as its Vice Chair for the year 2022-2023 and as its Chairperson for the year 2023-2024.

Mrs. Singh and her husband, Mr. Jaisal Singh, Vice Chairman, ANAND Executive Board, launched ANEVOLVE, a platform for green technology and clean mobility solutions, as part of their vision for a cleaner, and sustainable future for the planet in the year 2023.

Additionally, Mrs. Singh is the Co-Founder and Creative Director of SUJÁN, an experiential, conservation-focused, and positive-impact hospitality group that has

three award-winning tented camps in Rajasthan, India. All three camps have been consistently rated among the best in the world.

She is deeply committed to the cause of sustainability and to creating a positive social impact, especially via her involvement with ANAND group's CSR wing, the SNS Foundation, which focuses on education, health and hygiene, community development, and wildlife conservation in India.



Mr CV Raman

Chairman

CII Smart Manufacturing Summit and Member of Executive Committee, Maruti Suzuki India Ltd

C V Raman is a graduate from Delhi College of Engineering with a BE in Mechanical Engineering. Prior to joining Maruti Udyog Limited in 1984, he worked with Escorts (Yamaha Divn.) Ltd. Raman started his career in Maruti in Vendor Development Department. During his tenure in Vendor Development till 2001, he was responsible for Component & Supplier development. His key achievements were development of the supplier eco system and also their upgradation of Quality & Technology by enabling tie-ups/joint ventures with global auto component suppliers.

In 2001 Raman became part of the Engineering Division of Maruti Suzuki. He was instrumental in developing Maruti Suzuki Engineering into a R&D hub of Suzuki Motor Corporation, outside of Japan. During his tenure many successful new models were launched. Key achievements under his leadership were the design & development of highly acclaimed Compact SUV, the Vitara Brezza and setting up of the state of the art R&D Center at Rohtak. He was the CTO, Technical till Mar 2024.

C V Raman is currently the Member of Executive Committee of Maruti Suzuki.

C V Raman is also active in various professional bodies as:

- President, SAE India
- Chairman of SIAM Committee on Emission & Conservation
- Past President of ARAI Governing Council
- Director in Bharat Seats Limited, Krishna Maruti Limited & Machino Polymers Limited
- Past Member of the PAC of NSTMIS, Deptt of Science & Technology, GOI
- Member of CII Task Force on Future Mobility & Battery Storage
- Past- Member of Governing Council of National Institute of Design, Haryana

For his outstanding contribution to Automotive R&D & the Successful Vitara Brezza, Raman was awarded 'Man of the Year' by Top Gear in 2017. He was also the finalist of the World Car Person of the Year for 2023. Recently he was awarded the Industry Personality of the Year, 2024 by FASTER Awards. He was also the recipient of the

Engineering Excellence Award by SAE India Foundation. Raman was also recognized as a Distinguished Alumni of DTU, in 2018.



Mr Anish De

Global Head of Energy, Natural Resources and Chemicals,
Partner, KPMG in India

Anish De serves as KPMG's Global Head for Energy, Natural Resources and Chemicals (ENRC). He has over 25 years of experience in energy sector consulting. As an acclaimed energy sector expert, Anish has undertaken pioneering work in sector reform and restructuring, designing sectorial policy and regulatory framework; strategic planning, economic analysis; investment frameworks; corporate strategies, turnaround plans, institutional strengthening, energy markets; smart grids and digital solutions.

Anish has been a regular contributor to the Economic Times, CNBC, Powerline and other business and trade publications, especially on matters related to the energy transition, climate mitigation and adaptation and technology developments in the digital economy, energy storage, hydrogen and renewables. He has also been a member of several governmental task forces and committees on energy. In his current role Anish connects closely with UN Organizations and MDBs, IEA, IRENA and other key agencies on energy and climate matters.

Anish is a trusted advisor for corporates and governments. He founded the South Asia business of Mercados EMI in 2008, a boutique European energy consulting company. KPMG in India acquired the firm in 2014, whereafter he took over as the leader for the energy and infrastructure consulting practice. Since 2017 Anish has led the ENRC sector for KPMG in India and created a successful profile and market presence and has led Global ENRC since August 2022. ENRich, KPMG India's acclaimed energy and resources event, has pivoted to become a global conference of repute. He has also founded ENRich Labs as a quarterly innovation and co-creation platform with stakeholders. ENRich Labs is currently focused on accelerating the energy transition through Artificial Intelligence (AI) and Generative AI as a priority theme.



Mr Anup Wadhwa
Director, Automation Industry
Association (AIA)

Anup Wadhwa, an accomplished engineering alumnus of IIT Delhi and a certified professional in Technology Management from IIM Ahmedabad, brings over four decades of expertise in Industrial Automation and Technology Management. His journey from a passionate digital electronics enthusiast to a leading industry expert exemplifies his dedication to technological innovation.

During his tenure at BHEL, Mr Wadhwa led groundbreaking projects in systems engineering, establishing new benchmarks in industrial automation implementation. His leadership at Rockwell Automation was marked by successful technology implementation and the development of indigenous automation solutions tailored for the Indian market. At SAMTEL, he demonstrated exceptional entrepreneurial acumen in driving technology-led business transformation.

As the Director of the Automation Industry Association (AIA), Mr. Wadhwa has been the driving force behind numerous industry-academia partnerships. His visionary leadership in conceptualizing and establishing the IITD-AIA Foundation for Smart Manufacturing has created a robust platform for industry modernization and skill development.

A recognized thought leader in Industry 4.0, Mr. Wadhwa has served on multiple high-level government committees and UNIDO Expert panels. His contributions to the Samarth Udyog Ecosystem have been pivotal in creating a collaborative framework for industry modernization. He has been instrumental in developing policies and roadmaps for smart manufacturing adoption in SMEs.

Mr. Wadhwa's expertise in innovation management and systemic approach has benefited entrepreneurs and enterprises. He conducts workshops and mentoring sessions, helping individuals navigate internal challenges and mindsets.



Mr Gyan Prakash
Chief Automation (One IT),
Tata Steel Ltd

Tata Steel Limited, with manufacturing operations in 26 countries and commercial presence at 50 countries, a fortune 500 companies is the 10th largest steel producer in the world with an annual crude steel production capacity of **35 MnTPA**.

Tata Steel has won several awards and recognitions in the area of Business Excellence, HR practice, Safety, environment and Digitalisation. Tata Steel 3 nos of production facility received Global Light house award from World Economic forum.

Completed 28 years of association with Tata Steel. Electrical engineer by qualification worked with various production plants across Tata Steel, starting from Iron making, Steel making, Mills and Power Plant etc in the last 25 years. Was associated with maintenance of Electrical, Electronics, Instrumentation and Automation area to achieve benchmark availability with optimum cost in safe, swift, smart and sustainable way.

Currently leading Process Automation across TSL India. Driving transformation journey to achieve manufacturing excellence leveraging i4.0. Driving data maturity and use of AI to move towards Autonomous Operation to improve Yield, Efficiency, Throughput, Quality, Cost and Safety.



Mr T D Vaidyalingam

Chief Digital Officer Larsen &
Toubro Limited, Heavy
Engineering IC

Age: 39

Experience : 18+ years in Manufacturing, Manufacturing Technology, Robotics & Automation and Digitalization

Qualification: B.E (Madras Institute of Technology, Chennai),

PGEMP (SPJIMR, Mumbai)

Core Skills:

- Digital Transformation
- Process/ Technology Development
- Conceptual Design
- Robotics & Automation
- Creative Thinking



Significant Project:

Development of Smart IIOT based Stations for critical welding applications

The vision of making Heavy Engineering 'World's Best Fabricator' and the demanding delivery schedules of market, called for a revolutionary change in the process and data flow across manufacturing. Since there were no Off-the -shelf solution available, L&T developed these stations In-house with the following features,

- Data Acquisition, Analytics & Dashboards for Management review
- Connected Machines- Welder Authorization, WPS, Consumable Entry, Maintenance Entry, Maintenance Diagnostics Tools
- Operational Excellence- Quality & Productivity Improvement
- Ergonomically designed for Operator comfort

iRUDRA- End to End Digital transformation program

L&T HEIC has undertaken a digital transformation program called iRUDRA to enhance customer experience, product reliability, cost competitiveness, and employee experience. The program includes foundational solutions like plant connectivity and cybersecurity, platform solutions like CRM, Brah-m (Design Automation), PLM, IIoT & WFM and some niche point solutions. We look forward to leveraging our Data Lake to develop strong insights using the data generated through various platforms.

Other Major Projects:

- Process Development for In-situ liner replacement of critical Process Plant Equipment - Patent Awarded
- Automation of High Sagita Nozzle Welding – First of its kind
- Process and layout optimization for doubling production of PSLV- Middle segments



Prof Sunil Jha

Professor

Department of Mechanical
Engineering, IIT Delhi

Prof. Sunil Jha did his Ph.D in Manufacturing Science from IIT Kanpur and has been engaged in teaching and research on manufacturing processes, Computer Aided Manufacturing, and Industrial Automation for the last 17 years.

He has developed new unconventional super finishing processes and filed 12 patents; few of them have been successfully commercialized.

Before joining IIT Delhi, he worked with TATA Motors, Jamshedpur in the area of CAD/CAM and was engaged closely in digitization of engine components and foundry tooling development.

Currently in the capacity as Director IITD-AIA Foundation for Smart Manufacturing, Dr Jha is closely supporting manufacturing industry in absorbing new technologies to make them ready for next industrial revolution.



Mr Madhusudan N
Kestur
Director
Ace Micromatic Group

AceMicromaticMIT (AmiT) is a leader in the Industry 4.0 space with a special focus on Discrete Manufacturing. With his rich experience at large MNCs, Madhusudan brings a global perspective to innovation and product engineering.

The company's TPM-Trak products have won major awards that include Siemens, CMTI-PMT, Economic Times, PC Quest, NASSCOMPEM, Triveni Best Partner award etc. He is an invited speaker on Industry 4.0 at several national and international forums. He holds a B.E. (Mechanical Engineering) and an M.Tech (Computer Engineering).



Mr V Jagannath

Chief Operating Officer & Whole
Time Director,
m2Nxt

jagannathv@m2nxt.com: www.m2nxt.com:

Snapshot:

Graduated in 1990 from Bangalore University in Bachelor of Electrical Engineering, Overall, 32 years of Experience in Machine tool & Automation.

Control Specialist at German Grinding Machine Tool Manufacturer for 5 years. 23 years at FANUC India and attained Director & Senior Vice President Position.

Spear Heading as COO & Whole time Director at m2nxt solutions which was founded in June 2019. Founding member.

Senior Management professional with over 32 years of experience in

Working closely with Machine Tool Builders, Auto OEMs & Ancillaries (2W, 4W & HCV), Robot Integrators, Industrial Polymer Manufacturers including Mobile Phones, Medical industry and Tool Rooms.

Industry 4.0 integrated over 4000 CNC machines in the last 6 years with successful installations up to MES & Enterprise level in the manufacturing sector.

Robotic Automation: Machine Tool L/UL, Welding, Furnace, Ladling, Die Casting, Painting, End of Line, Electronic PCB and so on.

Gantry Automation: Washing, Aluminium Die cast ladling, Handling, Loading/Unloading with Machine Tool and so on. 85% indigenisation accomplished in 3 years. Payload from 100kg to 2Tonnes executed.

Vibration Sensors: Collision detection and Signature analysis for Machine Protection and Tool Life Monitoring with shunt current. Implemented sensors on Robots, Gantries and rotating equipment.

AGV (Automatic Guided Vehicle) Design and Development with customization for various applications.

Fixture & Tooling turnkey on any HMC/VMC Machine Tool. Executed retooling turnkey on most of the Bharat Stage IV to VI in 2W Industry and Diesel to Petrol conversion in Passenger Car segment. Quick delivery on brown field requirement with international machines.

3D Printing – Polymer with Polyjet, FDM and DED Metal composite through Laser on Robot including Hybrid and Servo Gantry. Working on Electron Beam AM and Welding. Bangalore Chamber of Industry & Commerce: Co chair for Industry 4.0 committee.

Part of many Industrial visits, Panel Discussion and Presentations on the above Topics

Other Interests:

Practising Yoga cure for back bone issues. Certified Dorne therapist, Practising Pranayama Analyst to improve Immunity, Cosmic healer with Deep Meditation and qualified Naturopath.



Mr Sandeep Chittora
Technical Director,
KPMG in India

Sandeep has 19 years of experience in manufacturing, business process reengineering, R&D and innovation, asset performance management and product lifecycle management. He brings experience in technology led transformation to energy, steel, automotive, manufacturing with his in-depth knowledge of Industry 4.0

Sandeep has spearheaded the development of Digital Twin of Plants comprising rotating and static assets through advanced pattern recognition and artificial intelligence. He has worked extensively for energy transition strategies, Renewable integration to improve overall efficiency

He is MBA from MDI Gurgaon and master's from IIT Bombay in Energy Science and Engineering. He has undergone certification programs for bringing technology to Market from ESMT Berlin. He currently is working as technical director in Industry Automation, Intelligence and Digitalization practice in KPMG.



Mr Sudeep Agarwal
Sr. VP - Head of IT and Digital,
ReNew Power

Digital technology leader with 20+ years of experience and expert in all emerging technologies, AI/ML, Cyber Security, Cloud, IOT and business transformation.



Mr Pokala Sreekanth

General Manager - Project
Planning,
Ashok Leyland Ltd

A postgraduate in tool design with B Tech in Mechanical engineering and 33+ years of experience, Mr Sreekanth has worked with major Auto OEMs like Hindustan Motors, Sundaram Clayton and Ashok Leyland in various capacities in design, manufacturing & engineering. A key follower of Japanese concepts of Lean, TPS, TPM and TQBM, he developed special interest in frugal innovative solutions while working for MNCs.

At Ashok Leyland, he was instrumental in creating state of the art manufacturing lines for Engines and Gear boxes for ICE segment. Currently leading teams for rapid Digitalisation towards built quality thus taking AL to next level of integrated manufacturing systems and proud to be part of AL's transformation to a Digital organisation and now making deep inroads into EV manufacturing

Sreekanth also enjoys working on analytical problem solving, optimisation and engineering solutions. He is passionate about training the young talent. His other areas of interest include GK, quizzes and math puzzles.



Mr Sundar Pelapur
Head - Customer Engineering -
Conglomerates Business
Google India

Sundar is an engineer, entrepreneur & technologist rolled into one. He has a broad range of experiences ranging from cloud computing, database management, data center tech, personal computing & has worked with a spectrum of industries including and not limited to Financial Services, Manufacturing, ITES, General Business - Retail and Packaged Goods etc.

Sundar embodies the innovation DNA and has been a customer champion in solving complex engineering challenges. He specializes in cloud infrastructure, integration, mobility, security, data management, monitoring, big data & analytics. An entrepreneur at heart, he started his career over 20 years ago building a business around setting up data centers, personal computing & consulting. His career has spanned across Oracle & Kirloskar where he held various leadership positions before joining Google.

In his current role at Google, he heads the Customer Engineering function for Conglomerates, in India. He is a certified Google Cloud Digital Leader and a passionate technology advocate.

Outside of work, he is an accomplished Electric Bass Player, Motorcyclist, an athlete who loves playing Tennis & staying fit, a hobbyist Photographer and a Gadget Enthusiast. His passion for experiencing world cuisine & fitness tech is no less than his elan for business & technology.



Mr S Devarajan

Sr Vice President (Advanced Manufacturing),
TVS Motor Company

Cell: 9894401006

Email = sd@tvsmotor.com or sdevarajan.devarajan@gmail.com

Born and brought up in Bangalore.

Education:

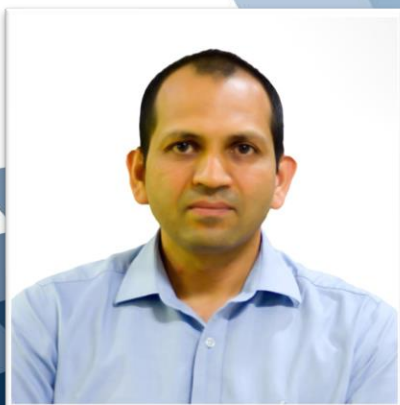
- BE (Mech engineering), MBA, Industrial engineering MS and Engineering Doctorate in Manufacturing Systems Engineering from University of Warwick, UK.
- Awarded prestigious “Rolls Royce” award for excellence in Manufacturing concepts and implementation in UK.
- Awarded “Thought Leadership” by Automotive Manufacturing Solutions UK.

Profession:

- Working with TVS group from past 38 years and presently as Head of Advanced Manufacturing / Production Engineering in TVS Motors. Lead New Product Development. Worked in setting up facilities of Press shop, welding shop, Painting plants, Heat treatment plant, Machining of steel and aluminium engine parts, Assembly lines, leading many projects in TVS Motors, TVS Electronics. Presently concentrating on Advanced Manufacturing - New Process Technology, Lean manufacturing systems, Sustainability, Digital manufacturing, TPM and JIT implementation in TVS Motors

Others

- Interested in Sports. Represented Karnataka state and Bangalore University in Table- Tennis.
- Immediate Past President of BCIC (Bangalore chamber of Industries and commerce) and Mentor for Manufacturing committee. Actively participates in NITIE, IMTMA, CII, ACMA and in Board of studies in Engineering and Management Institutes.



Dr Asim Tewari

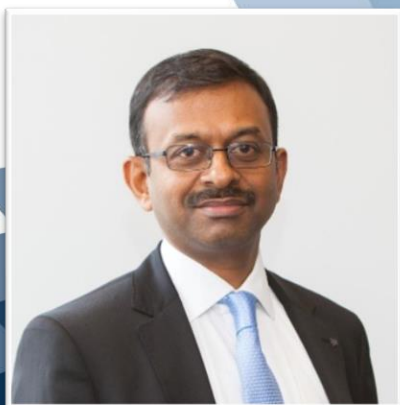
Professor (HAG), Center for Machine Intelligence and Data Science (C-MInDS) and Department of Mechanical Engineering, IIT Bombay

Asim Tewari is a Professor (HAG) in the Department of Mechanical Engineering and a faculty member of the Center for Machine Intelligence and Data Science (C-MInDS) at the Indian Institute of Technology, Bombay, Mumbai. He graduated with a Bachelor's degree in Technology (B.Tech.) from IIT Kanpur and an M.S. and Ph.D. from Georgia Institute of Technology, Atlanta. With over twenty-five years of work experience in both corporate R&D and national research laboratories, he has made significant contributions to the field in Applied Artificial Intelligence in engineering systems and processes. He has published over 100 research papers, eleven international patents and ten Indian patents. Under his guidance, eighteen Ph.D. students have graduated, along with more than fifty M.S. students. Over the last decade, he has secured research funding of over \$15 million.



At IIT Bombay, he has been instrumental in establishing several state-of-the-art facilities, including a Technical Textiles Research Facility for Type-4 hydrogen cylinder design & Manufacturing, an Advanced Machining Excellence Cell, a Fiber Composite Research Laboratory, 4D X-ray Microscopy Laboratory, an experimental lab for thermo-mechanical simulation, and a Nano-characterization Texture Laboratory.

For the last decade, he has been working on the application of artificial intelligence in various domains. He established a Cyber-Physical Systems and Data Analytics research group at IIT Bombay, which focuses on smart manufacturing, machine learning, data analytics, and IoT for various sectors, including manufacturing, transportation, and defense. The group also works on video comprehension based on deep learning for inference and surveillance. Notably, the group has developed end-to-end solutions for digital factories using indigenous industrial IoT edge devices, cloud networking, and artificial intelligence backends. They have several international and Indian industrial projects to their credit and offer executive training on AI and digital transformation to industry.



Mr Sreenivasa Chakravarti

Vice President, IoT & Digital
Engineering, Tata Consultancy
Services (TCS)

<https://www.linkedin.com/in/sreenivasa-chakravarti-5776432/>

Sreenivasa Chakravarti is a Vice President at IOT & Digital Engineering Business at TCS responsible for Services, Sales and Operations.

He has over 30 years of cross functional experience, cutting across P&L Management, Sales, Consulting & Advisory Services & Manufacturing Industry Functions. In his current role he is responsible to help enterprises realize their vision of the 'Connected Digital Enterprise' and adopt the tenets of the 21st Century Value Chains.

Prior to this, he has worked as the Dy. Head for IOT & DE (Enterprise Growth Group), Global Head for Connected Plants Business, Global Practice Head for Manufacturing and the Head of Innovation & Transformation of the Manufacturing Business Unit.

As a P&L Owner and Thought Leader, he is focused on addressing the challenges and opportunities arising out of digital transformation especially –

- ✓ Intersection of industries leading to new service opportunities
- ✓ Evolution of value chains to become more customer centric and operate in networked ecosystems and the
- ✓ Impact of emerging technologies in shaping business models and operating models by exploring new sources of differentiation and competitive advantage

In previous roles, Sreenivasa has worked in advisory capacity with some of the largest clients globally, worked in the consulting industry in the areas of business strategy and organization design, and hands on in multiple functions in the industry including corporate planning, channel management and production. He has incubated new lines of business in Connected Automotive (Connected Autonomous Shared Electric), Asset Servitization and Industry Advisory Services.

He has authored several thought leadership papers on topics such as Neural Manufacturing, 21st Century Value Chains and Intelligent & Insight Driven Enterprises.

He comes with a background in Electronics Engineering and an MBA from the Indian Institute of Management (IIM-L).



Mr Gaurav Kataria

VP Digital (Manufacturing) &
Chief Digital and Information
Officer (CDIO), ITC Paper
Boards Ltd

Gaurav has 25+ years of experience across digital transformation, technology leadership, consulting, marketing and strategy. He has driven large digital and innovation programs globally.

Currently at ITC Limited, he is their VP Digital driving change across all of ITC's Manufacturing landscape, and the Chief Digital & Information Officer (CDIO) for its Paperboard and Specialty Papers Division (PSPD).

Gaurav has held technology leadership roles at Sai Life Sciences (Pharma), and Cyient (Digital and Engineering services), where he was responsible for formulating the Digital Strategy, Product Development and solution delivery. He also chaired the IT Security Council (acting as the CISO).

Over his career he has also worked with global majors like Intel Technologies, Siemens, HCL Technologies, and Feedback Business Consulting, cutting across roles like Consulting, Marketing, Sales, and Technology.

Gaurav has an engineering master's degree from BITS, Pilani, and executive business education from Harvard Business School Publishing, Boston, MA.



Mr Bimal Puri

Senior Vice President & CIO
(Fluoro Chemicals & Technical
Textile Business)
SRF Ltd

Mr. Bimal Puri, an accomplished Chief Information Officer (CIO) is renowned for his strategic vision and adeptness in leveraging technology to drive organizational growth and innovation.

With a stellar track record spanning three decades, he has excelled in navigating complex business landscapes and spearheading impactful digital and plant automation initiatives. He has extensive experience working with Japanese Fortune 300 MNCs, Indian MNCs, and a diverse range of industries including automobile, technical textiles, and chemicals.

Mr. Bimal Puri has been a leading figure and contributor in various industry forums and IT technology circles, earning recognition through multiple CIO leadership awards.



Mr Saurabh Bhatnagar

Partner
KPMG

Master's in business administration: Interest areas: Strategic Mktg and Corp Finance, •MSc, Chem Engg: Process Modeling for Control in Manufacturing.

Saurabh has over 26 years of work experience across Business Functions viz Supply Chain, Manufacturing, Product Development, Product Lifecycle Management, Capital Project Management and Business Analytics. He has extensive experience in the industrial sectors of Metals and Mining, Oil and Gas, consumer products, bulk chemicals and Auto Ancillary.

In his current role at KPMG he currently he leads the Industrial Automation, Industry 4.0 and CPS (Cyber Physical Systems) practice for India. A practitioner of applied machine learning, designing and configuring OT constructs for asset intensive industries. His specific consulting solutions are about working with clients to yield business value of Industry 4.0 driven consulting assignments.

In the past , he has been the India lead for Metals and Mining Sector , Global Ind 4.0 practice, lead APAC lead for Manufacturing and Process Consulting in leading consulting firms in India. Saurabh has to his credit several large manufacturing transformation engagements for clients across industry notably, Consumer Products, Metals and Mining, Oil and Gas and Auto Ancillary.

Prior to his consulting career he held leadership positions with leading multinational firms in the industry in functions spanning business strategy, marketing strategy and execution, product innovation and development/design, factory production design and supply chain operations.

He has several publications and noted POVS under his authorship related to Customer Centric Manufacturing, Advanced Production Systems, Manufacturing Performance Management, Digital Manufacturing, Green Steel, Future of India Steel and Manufacturing Excellence and is Certified Lean Six Sigma Master Black Belt.



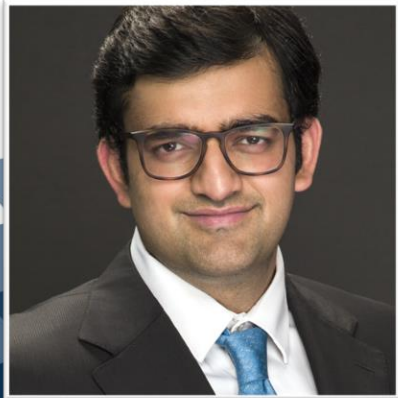
Mr Asim Prasad

Chief General Manager, Gas
Authority of India Ltd (GAIL)

Asim Prasad heads the Corporate Strategy, Planning, Advocacy, and Corporate Affairs departments as Chief General Manager at GAIL (India) Limited Corporate Office, New Delhi. His responsibilities include corporate strategy, MOU, budgeting, expenditure planning and monitoring, strategic initiatives to expand GAIL's business and profit maximization initiatives involving advanced technologies in business operations. During his professional career, which spanned over 30 years at GAIL, he worked at different GAIL installations in different positions in diverse business verticals, such as operations and maintenance, pipeline project management, natural gas transmission, and gas marketing. He has executed several prestigious projects on Natural Gas Transmission and Distribution and LPG Transmission Pipelines. Also, as Zonal Chief General Manager & OIC at GAIL Kolkata Zonal Office, he established the natural gas market in eastern states, promoting sustainable socio-economic development in Jharkhand and West Bengal.

One of his initiatives involved conceptualizing and successfully implementing a pilot project to run two 100 tons of BEML BH100 dumper trucks into dual fuel LNG mode.

Mr. Prasad holds a B.Tech in Mechanical Engineering from IIT Kanpur, a Post Graduate Diploma in Project Management, and a Master in Business Administration. He has several publications in conference proceedings and indexed journals of international repute. He is a Fellow at the Institute of Engineers India Kolkata, a member of the Project Management Institute, New York, a member of Engineering Council of India and a Life member of ASCI, Hyderabad, NIPM Kolkata and IIM Mumbai.



Mr Aman Kirloskar
Vice President,
Kirloskar Pneumatic Mfg Co Ltd

Aman Kirloskar started his career with the Kirloskar Group as a Supply Chain Manager with Kirloskar Chillers Private Limited in May 2018. He later joined Kirloskar Pneumatic Company Limited as a Senior Manager in August 2019 and was instrumental in developing business, playing vital role in formulating business strategies and effective implementation of the same. In 2020, he was elevated to General Manager (Operations) and since then is actively involved in Manufacturing, Supply Chain, Foundry, Plant Engineering and Quality of Air Compressor and Transmission Division(s). He also pioneered scaling up of production of air compressors, new machines with screw and centrifugal technology along with manufacturing and assembly of piston compressor range. Thereafter he took over as head of the Air Conditioning and Refrigeration business unit in 2023. ACR SBU accounts for nearly 35% of Company's Sales and Profit.

He also heads group level initiatives in areas like ESG compliance. He chairs the group level Energy conservation committee which spearheads various initiatives across multiple business units focused on sustainability, green technology and circular economy.



Dr Raju Goyal
Executive President, Chief
Technical and Sustainability
Officer, Ultratech Cement Ltd

He has 33 years of experience in the Cement Industry across Asia, Africa, Europe, and Oceania. He holds a Master's Degree and Doctor of Philosophy in Chemistry from India and an MBA from Chicago Booth, USA.

He joined UltraTech in 2019 from CRH Singapore, where he was Director of Technical Services and responsible for Asia Pacific operations. Before CRH, he worked for around 19 years with Holcim and held various Senior management positions, including member of the Board of Directors.

He has extensive experience in safety, technical, project management, manufacturing, energy management, Sustainability, alternative fuels and materials, performance management, capital and operational expenditure, M&A, due diligence, product development, and commercial and procurement services.

He serves as chair, and member of various committees including the Global Cement and Concrete Association (GCCA), Confederation of Indian Industry (CII), NITI Aayog, Bureau of Indian Standards (BIS), Department of Science and Technology (DST) under the Ministry of Science and Technology in India, National Council for Cement and Building Materials (NCBM), Cement Manufacturers' Association of India (CMA), and Aditya Birla Group (ABG).

He is a golfer, has won a few tournaments, and enjoys networking.



Mr Ankur Pancholi
Business Manager- Software &
Control, Rockwell Automation
India Pvt Ltd

Professional with 25 years of experience in Project Management, Project execution, Sales Management & Business Development of Industrial Automation Products.

Masters in business administration with specialization in Sales & Marketing

Straddles cross-functional domains in industries including Life-sciences, Specialty Chemicals, CPG & Oil & Gas

Proficient in managing & leading teams

A strategist and an implementer with recognized proficiency in spearheading business to accomplish plans and goals

Driving businesses through a high sense of purpose and vision

A casual photographer with creativity & curiosity at heart

Partner Profile

SILVER PARTNER



About ANAND Group

ANAND is a \$2.2-billion Group that has a legacy of over six decades, with over 20,000 employees and is a leader in manufacturing world-class products and systems for the automotive industry. ANAND has 24 companies of which 10 are joint ventures, ranging from the US to France to Japan. It has also formed four technical collaborations.

The ANAND Group creates, designs, and manufactures the most technologically advanced products and solutions in ride control products, motors, drive trains, climate control products, engine cooling products, brake systems, sealants, electric motors, safety products, and electric power steering wheels, among others. It provides its products to nearly every leading Original Equipment Manufacturer in India, as well as major EV players. It has an increasing focus on E-mobility with the complementary ANEVOLVE platform.

ANAND Group also has a hospitality wing, SUJÁN, which offers experiential luxury while embracing community conservation. Further, SNS Foundation (SNSF), the CSR arm of the ANAND Group, leads ANAND's community-focused initiatives with the objective of building a socially equitable, environmentally sustainable, and economically progressive world. It has positively impacted tens of thousands of lives.

The ANAND Group is spread across over 75 locations. It also has a sizeable exports and aftermarket presence.

Gabriel India Limited, the flagship company of ANAND Group is a listed company on Bombay Stock Exchange.

<https://www.moneycontrol.com/india/stockpricequote/auto-ancillaries/gabrielindia/GI02>

Please visit our website www.anandgroupindia.com and LinkedIn <https://in.linkedin.com/company/anandgroupindia>

SILVER PARTNER



Maruti Suzuki India Limited (MSIL), a subsidiary of Suzuki Motor Corporation, Japan, is India's largest passenger vehicle manufacturer, credited with revolutionizing the country's automobile industry. Established in 1981 as a joint venture between the Government of India and Suzuki Motor Corporation, it is now 58.19% owned by Suzuki. The company is listed on NSE and BSE.

Headquartered in New Delhi, Maruti Suzuki operates two manufacturing facilities in Haryana (Gurgaon and Manesar) with a combined annual capacity of over 1.5 million vehicles. In early 2024, an additional assembly line at Manesar increased capacity by 100,000 units. In addition, MSIL's wholly owned subsidiary, Suzuki Motor Gujarat manufactures 750,000 units, bringing the total annual capacity to 2.25 million units.

In FY 2022-23, Maruti Suzuki began constructing a new facility in Kharkhoda, Haryana, with a future capacity of 1 million vehicles annually. As part of its future growth plans, the Company aims to further scale up its production to 4 million units per year by FY 2030-31.

The company has employed 38,000+ people across India.

Starting with the iconic Maruti 800, the company now offers a diverse portfolio of over 150 variants across 16+ brands, including recent launches like the FRONX, JIMNY, Invicto, Swift and the All-New dazzling Dzire.

In FY 2023-24, Maruti Suzuki achieved record sales of over 2 million units, and *net sales of INR 1,349,378 million, and a *PAT of INR 132,094 million. The ambition for Viksit Bharat cannot be met by domestic demand only: India needs to capture a larger pie of global trade by enhancing exports. It has been the top passenger vehicle exporter for three consecutive years, exporting to over 100 countries.

Committed to the 'Make in India' initiative, Maruti Suzuki sources most components locally and focuses on clean and green products. The company operates four retail channels and an extensive service network, continually innovating to meet evolving customer needs. Its CSR efforts focus on community development, road safety, and skill development.

Towards its commitment to decarbonizing, Maruti Suzuki is working on multiple powertrain technologies that include BEVs, Hybrids, Biofuels (Ethanol, Compressed Biogas) and CNG to reduce carbon footprint in totality. Besides, the Company plans to introduce its 1st EV SUV in 2025.

SILVER PARTNER



Rockwell Automation

Rockwell Automation, Inc. (NYSE: ROK), a global leader in industrial automation and digital transformation, is committed to making the world more productive and sustainable by connecting the imagination of people with the potential of technology. Headquartered in Milwaukee, Wisconsin, Rockwell Automation employs approximately 27,000 problem solvers in more than 100 countries.

In India, Rockwell Automation has a significant footprint with over 4,000 regional employees. The company operates 16 sales and support branches along with four distribution partners in 20 locations. Key facilities include a R&D center in Bangalore, Solutions Engineering Centers (GEBS) in Noida and Pune, Software Development Center in Pune, a Digital Transformation Experience Center in Gurgaon, Manufacturing facility in Udaipur, and AP Innovation Center (Kalypso) in Pune underlines the company's focus on innovation.

Rockwell Automation's growth in India is further supported by strategic acquisitions, including Knowledge Lens, a technology company that offers solution on Big Data, AI, IoT, Blockchain and Cloud. And MESTECH Services, a global leader in Manufacturing Execution Systems (MES).

Recognized as a Great Place to Work (GPTW) from June 2023 to June 2024, Rockwell Automation has seen significant growth with a four-fold increase in headcount since FY15 with domestic customers contributing to 85% of its revenue. Rockwell Automation has established itself as a thought leader in the industrial automation space through its deep engagement with all the stakeholders in the industry including industry bodies like CII National Committee on Smart Manufacturing which is chaired by the Managing Director of Rockwell Automation India.

BRONZE PARTNER



Engineering a Sustainable Future

Larsen & Toubro is a tech-driven Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services and operating in over 50 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over eight decades.

We are engaged in developing high impact sectors of the economy. Our integrated capabilities span the entire spectrum of 'design to delivery'. The Company focuses on transformation through digitalisation and is exploring new age businesses like the Hydrogen economy and Renewable energy among others.

Sustainable progress for a better world

Sustainability is embedded into our long-term strategy for growth and every aspect of our operations is characterised by professionalism and high standards of corporate governance.

L&T was the first Engineering & Construction company in India to report its sustainability performance. The Company has adopted the Integrated Report format of reporting, showcasing how key capitals impact performance and winning global accolades for stakeholder communication in this arena.

Making meaningful choices today is pivotal to building a better world. At L&T, we have been a partner in India's progress through events of historic significance and hues – whether white, black and green – and have used them as an inflection point to strengthen our own resilience and drive the global sustainable development agenda.

Over the years, we have consistently sharpened our focus on improving our performance across environmental, social and governance (ESG) parameters. We are undertaking synchronised efforts to reduce our carbon footprint and enhance resource efficiency while strengthening our green portfolio. This is helping us move towards our goal of becoming a 'net zero' company, while enabling our stakeholders to move further on their own low carbon path.

As 'The Builder of 21st Century India', we are revisiting our vision, policies, frameworks, roadmaps and action plans to deliver 21st century solutions towards building a better future.

Partners

Silver Partners



Bronze Partner



Associate Partners



Corporate Contributor



Knowledge Partner





Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society, through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, with around 9,000 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 365,000 enterprises from 294 national and regional sectoral industry bodies.

For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness, and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Through its dedicated Centres of Excellence and Industry competitiveness initiatives, promotion of innovation and technology adoption, and partnerships for sustainability, CII plays a transformative part in shaping the future of the nation. Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes across diverse domains including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

For 2024-25, CII has identified "Globally Competitive India: Partnerships for Sustainable and Inclusive Growth" as its Theme, prioritizing 5 key pillars. During the year, it would align its initiatives and activities to facilitate strategic actions for driving India's global competitiveness and growth through a robust and resilient Indian industry.

With 70 offices, including 12 Centres of Excellence, in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with about 300 counterpart organizations in almost 100 countries, CII serves as a reference point for Indian industry and the international business community.

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