

Faculty Profile

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About me: Experienced Technical Specialist with a solid background in Engineering solutions, Automation, Product Development (NDP) and R & D with 14 years of Industrial experience working with OEMs like John Deere, TVS, Maruthi, Toyota, Line Builders like ABB, Fanuc, Universal Robots, Infosys, Ranal Software technologies (Siemens Speciality partner for Robotics and Plant Simulation solutions) and Process based industries like-Hindustan Unilever, ITC, MTR (Orkla Industries), D R Technologies and now currently working in NIE, Mechanical Department as an Assistant Professor from last 1 year.

Different positions held in industries are **Head-Technical Operations, Project manager, Senior Application engineer & now an Assistant Professor.**

Research Projects:

1. **Rewire Project (NDP):** Working with NIE CREST, FH Dortmund & Mercedes Benz in developing Automation solution for Recycling and reuse of End of Life Wiring harnesses from Automotive vehicles.
2. **Mossiles (NDP):** Floor and wall tiles integrated with different types of Mosses which breath out oxygen and helps in creating cleaner and greener work environment.
3. **Waste Management:** Separation & Segregation of Plastics and metal wastes using vision and sensor-based Automation systems with integration of Robotics.
4. **Plasto Tiles:** Floor tiles made out of waste plastic which can integrate with vegetations for integration with Mossile project.
5. **Sustainability Curriculum:** Working with Mercedes Benz India and IIHS university to create curriculum for 3rd Semester Mechanical students on sustainability topics (eg. How to integrate sustainability in initial design process of a product, Digital Twins, Production & Manufacturing, Quality etc.)

Recognitions:

1. **Siemens Denmark:** Best manufacturing support provided during COVID-19 Pandemic with Additive manufacturing technology for design and development of Face shields as they published an article on LINKEDIN
2. Best **“Employee of the Year”- John Deere**

Qualification:

1. B.E Mechanical: NIE, Mysore
2. M.Tech- Industrial Automation & Robotics: NIE, Mysore

Courses Taught:

1. PG Courses:
 - a. Automation & Manufacturing Systems
 - b. Digital manufacturing
 - c. Industrial Robotics
 - d. Introduction to AI & ML
 - e. Rapid Prototyping
2. UG Courses:
 - a. Introduction to Mechanical Engineering
 - b. C Programming Lab
 - c. Metrology & Measurements Lab
 - d. EME LAB
 - e. Computer Aided Analysis Lab

Publications:

Project works have been started with focus on New Product development (NPD) and Patenting. Journal and conference Publications will be made as a part of this NPD eventually.

Journal Publications: NIL

Conference Proceedings: NIL

Text Books: : NIL

Book Chapters: NIL

Other achievements:

1. **Consultancy Projects:** Working with industries to get new works on Process Automation (Commercial Proposals sent of Bhoruka Fabcons an waiting for confirmation)
2. **Patents:** working on Mossiles and Rewire project which will convert to Patents post research work and testing.
3. **Faculty Incharge for Rotaract Club of NIE (part of Rotary International):**
 - a. merging Service with technology to create a major impact on society
 - b. taking up real world problems from society to give a technology solutions.
 - c. Organizing mega Robo Wars event bringing in fighting bots which will help cater technology innovation in minds of students
 - d. Organizing a Major Startup funding event by bringing in Investors who will fund up to 2 lakhs to students with startup idea and want to take it to product levels.
4. Professional Membership:
 - a. Member of Rotary Club of Mysore Metro (part of Rotary International)
 - b. Member of International Association of Engineers (IAENG)
