

# KUMAR N V

## Instructor/ SIT - AICTE IDEA LAB

Siddaganga Institute of Technology,  
Tumakuru, Karnataka



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### Contact Information

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### Professional Summary

Passionate and dedicated innovation mentor with 3 years of experience in guiding engineering, diploma, ITI, and school students, as well as faculty members, in developing innovative and practical projects.

- Proficient in applying design thinking, rapid prototyping, and product development methodologies aligned with AICTE IDEA Lab objectives.
- Successfully facilitated numerous workshops and hands-on sessions to encourage creative problem-solving and technical skill development.
- Adept at nurturing a culture of innovation and entrepreneurship through collaborative, project-based learning environments.
- Committed to empowering learners to transform ideas into tangible solutions using interdisciplinary approaches and emerging technologies.

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### Educational Qualifications

- **B.E** in Mechanical Engineering
- **Diploma** in Mechanical Engineering

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### Professional Experience

**IDEA Lab Instructor**-Siddaganga Institute of Technology, Tumakuru, Karnataka,  
Sept.2022 to Till Date

- Guiding students in ideation, prototyping, and development of engineering projects in line with AICTE guidelines.
- Facilitate workshops on design thinking, 3D printing, IoT, and embedded systems.
- Collaborate with faculty and industry experts to organize innovation challenges and hackathons.
- Assist students in filing patents and preparing project reports for competitions and funding.

**Industrial Engineer** -Gokaldas Exports, Tumakuru  
2021 to 2022

- Conduct time and motion studies to establish standard operating procedures and improve line balancing
- Optimize line layout and manpower allocation to enhance productivity and efficiency
- Drive continuous improvement initiatives to increase output with minimal resource usage

- Conduct capacity studies and evaluate bottlenecks to support planning decisions
- Provide training to operators on standard methods and productivity improvement
- Monitor Key Performance Indicators (KPIs) like efficiency, production targets, and machine utilization

### **Production Engineer -Hydro Products, Dobbaspet**

2018 to 2021

- Supervise and coordinate daily production activities to meet quality and delivery targets
- Monitor and control machining, assembly, and testing of hydraulic components
- Prepare and maintain production schedules, ensuring optimal use of manpower, machines, and materials
- Identify and resolve process bottlenecks to improve production efficiency and reduce downtime
- Maintain production records, process sheets, and generate daily/monthly performance reports

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### **Technical Skills**

- Prototyping Tools: Arduino, Raspberry Pi, 3D Printers, CNC Wood Router, CNC Laser Engraver & Cutter, Vinyl plotter, T-shirt & Mug printing machine, Motorized Coil winding machine
- Software: SOLIDWORKS, CARVECO, LASER CAD, COREL DRAW, REPETREL, PRUCA, GREAT4
- Innovation & Design: Design Thinking, Rapid Prototyping, Project Management

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### **Publications**

- B. V. Triveni, H. S. Lalithamba, H. S. Bharath, **N. V. Kumar**, G. K. Prashanth, "Three-Dimensional Printed Integrated Electrochemical Devices for Various Applications – A review", Chemistry Select, Volume9, Issue35, September 18, 2024, e202402463

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### **Certifications**

- AICTE Training and Learning (ATAL) Academy Certification in Advanced FDP on Electronics System Design, October 2022.
  - AICTE Training and Learning (ATAL) Academy Certification in Recent Advances in Nanotechnology for Medical Application & Radiation Treatment, December 2024.
  - AICTE Training and Learning (ATAL) Academy Certification in Industry 4.0: Research & Applications Perspective, December 2024.
  - AICTE Training and Learning (ATAL) Academy Certification in Smart Manufacturing and Digital Transformation in Industry 4.0, December 2024.
  - AICTE Training and Learning (ATAL) Academy Certification in 3D Printed Composites: Materials, Technologies, and Applications, January 2025.
  - AICTE Training and Learning (ATAL) Academy Certification in Artificial Intelligence for Digital Manufacturing, January 2025.
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**Projects & Achievements**

- Guided students project on Prototype CNC WOOD ROUTER, CNC LASER ENGRAVER, HANDWRITING MACHINE
  - Successfully conducted 80 workshops and boot camps on Advanced Digital Manufacturing.
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**Additional Information**

- Languages Known: Kannada, English, Hindi
  - Continuously upgrading the knowledge by attending workshops, conferences, industry visits and NPTEL courses.
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