

Curriculum Vite

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CAREER HIGHLIGHTS:

- Experienced Assistant Professor and Industrial Consultant with over two decades of combined academic and manufacturing expertise.
- Owner of Trufit Precisions, specializing in CNC machining and component development for top-tier auto manufacturers
- **AI-oriented** academic and industrial innovator with 20+ years of experience in engineering education and smart manufacturing in automotive firms.
- Driving force behind **AI-integrated solutions such as Augmented Reality** applications in mechanical assembly processes.
- Initiated state-of-the-art labs in Mechatronics, 3D Printing, and Robotics to support **AI-based research and prototyping**.
- Expertise in mechanical design, production optimization, and quality systems, including ISO 9000 and TQM.
- Led innovative product development in academic and industrial settings, including over 100 machined components.
- Published **AI-relevant research on sensory systems** and optimization techniques in reputed journals and conferences.
- Actively involved in guiding UG, PG, and PhD students, with over 50 projects supervised. Awarded patents and published research in intelligent systems and process automation.
- Seminars on **AI tool applications** & 3D printing for Educators and Students
- Key contributor to NAAC, IQAC, and curriculum innovation through Outcome-Based Education (OBE).

Educational Experience:

Contributed to campus activities to enhance academic activities.

Implemented innovative teaching methodology

Worked as,

Head of the Department of Basic Science and Humanities

Head of the Department of Mechanical Engineering.

Institute Coordinator of IQAC

Worked as NAAC coordinator

Working as Workshop Superintendent

Dean Quality Assurance

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Training & Placement Activity

Industrial Experience:

Owner of Trufit Precisions Karad, India |1999 – Current

- Trainee Engineer, Samarth Auto Parts 1993 (1 year) Worked with production to understand our process capabilities and develop ideas that reduce costs and improve quality
- Shift in charge at Sinenumero Engg. Pvt. Ltd. October 1994 (1 Year) Work closely with the Production team to develop assembly processes and provide technical support to assist in production line set-up/flow
- Asst. Production Manager, Mangesh Auto Parts, 1997 (3 years) Assisted in new product development and re-engineering of existing products to ensure they meet customer expectations
- Owner of Trufit Precision, Karad (CNC Machine Shop) and Shirol, Kolhapur (21 years) 1999 to present Developed and supplied various auto component to major Industries such as TATA Motors, ASHOK Leyland, Bajaj Auto, Hutz, Familiar with Industrial working background, such as ISO 9000 System, TQM, 5S, etc. Developed more than 100 machined components and products and supplied to the mentioned customers

Education:

- Master's, Engineering (Production) 2012 Marks 66.23%,
Government College of Engineering Karad
- AICTE & UGC, Maharashtra
- Bachelor, Engineering (Mechanical) 1992 Marks 67.70%
Rajarambapu Institute of Technology | Rajaramnagar
AICTE & UGC, Shivaji University, Maharashtra

KEY ACHIEVEMENTS:

Teaching Related

- Received Grant from Shivaji University under Research Initiation Scheme
- Developed innovative lab for Mechatronics, 3 D printing & Robotics etc.
- Successfully worked at different position Such as HOD, Dean, administer etc,
- Guided for UG/PG and PhD students along with setup utilization
- Seminars / Trainings conducted on CNC programming,
- Visiting Lecturer, 2009 at Govt. Polytechnic Karad • Visiting Lecturer, 2012-13, Govt. College of Engg. Karad
- Industrial project guide
- Successfully implemented OBE system
- Resource Person at Two days seminar program

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- 20 + Workshops Attended
- Guided more than 50 projects Industry related
- Industrial MOU with Govt. polytechnic Karad
- Component developments on sophisticated machines
- Best Vendor. award from Emerson for my firm
- Achieved cost optimization in machining set up. Consulting to startups and SMEs

Patent:

- Design Solution of Shoe Sole (Base of the Footwear) Preparation in Traditional Hand Sewn Footwear Manufacturing: A Case Study on Kolhapuri Chappal
- Automatic step to slope conversion mechanism
- Saline monitor and information system