

# NAGESH A KOLI

B.E. MECHANICAL ENGINEERING | 2027

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## PROFESSIONAL SUMMARY

Mechanical Engineering undergraduate with practical exposure to CAD design, CNC machining, manufacturing, robotics, automation, Wire EDM and 3D printing. Proficient in CATIA, 3D Experience Dassault Systems, Creo, Fusion 360 and Solid Edge, with industrial internship experience in forging, machining, production workflow and quality inspection. Seeking entry-level Mechanical Design, Manufacturing or Production opportunities.

## TECHNICAL SKILLS

**CAD & Design:** CATIA, Creo, Fusion 360, Solid Edge, 3D Modeling, Engineering Drawing

**Manufacturing:** CNC Turning, CNC Milling, Wire EDM, Manufacturing Processes, Quality Inspection

**Automation:** Arduino, Sensors, FANUC Pick-and-Place Robot, Robotics, Basic Automation

**Additive Manufacturing:** 3D Printing (FDM) – Setup & Operation

## EDUCATION

### B.E. – Mechanical Engineering

KLS Gogte Institute of Technology, Belagavi | 3rd Year (6th Semester) | CGPA: 7.2/10

### Diploma – Mechanical Engineering

M. L. Bharatesh Polytechnic, Belagavi | CGPA: 9.2/10

### SSLC/ 10<sup>th</sup> Standard

Little Scholars Academy, Belagavi | Percentage: 76.96%

## INDUSTRIAL EXPERIENCE

### Jinabukul Forge Industries Pvt. Ltd., Belagavi

Mechanical Engineering Intern | 1 Month

- Gained exposure to forging, material flow, production workflow and quality inspection.
- Observed shop-floor operations, manufacturing practices and industrial safety procedures.

### Balu Forge Industries Pvt. Ltd., Belagavi

Industrial Intern | 15 Days

- Observed forging/machining operations, CNC production activities and process sequences.
- Developed practical understanding of industrial production and teamwork.

## PROJECTS

### Performance Analysis of Intercooler in Multi-Stage Reciprocating Air Compressor Using Nanofluids and Synthesizing of Nanoparticle

#### Smart Automated Dustbin | Arduino + Ultrasonic Sensor

- Designed a touchless dustbin using ultrasonic sensing and Arduino-based automatic lid control.
- Applied sensor interfacing, embedded control and automation concepts.

#### Humidity Detection System | Sensor-Based Monitoring

- Developed a sensor-based system to measure and monitor humidity levels for real-time observation.

#### Phase Change Material (PCM) Study

- Studied thermal energy storage, heat absorption/release behaviour and PCM applications in thermal management.

## TRAINING & ACHIEVEMENTS

• Four months Training in GTTC on Advanced Manufacturing Process | Creo Cad Design| ROBOTICS Program & Operation • On-the-job Wire EDM training • NDT workshop • Technocrat 2K23 project exhibition • ASME eFX CAD Modelling Competition • 3-Day Rubicon Soft Skills Training

## LANGUAGES

English (Fluent) | Hindi (Fluent) | Kannada (Fluent)