

PRABOD ARJUN KUMAR.S

Mechanical Engineering student looking for an opportunity to apply the skills and knowledge I've gained through academic projects and practical experience. I'm particularly interested in roles where I can contribute to real-world engineering problems, work in a team, and continue learning. My involvement in various college activities has helped me develop leadership and collaboration skills, which I aim to bring into a professional environment.

IN-PLANT TRAINING

IPRC (ISRO Propulsion Complex), Mahendragiri – 2025

(2 weeks)

Learned about Testing and Integration of Rocket Engines and Stages. Also learned about the different manufacturing processes employed in the industry

HP Green Energy, Bengaluru – 2025

(2 weeks)

Learned about Wind Turbine Installation and Resource Planning involved in the process.

EDUCATION

- National Engineering College, Kovilpatti : 2022 - Present **(64%)**
- KEINS Matriculation Higher Secondary School : 10th Exam : **67 %** 12th Exam : **72 %**

KEY SKILLS

- AutoCAD
- SolidWorks
- ANSYS
- C Language
- Python Language
- NDE

OTHER SKILLS

- Leadership
- Communication
- Problem solving
- CNC
- MS Word
- MS Excel

CERTIFICATIONS

Dassault Systèmes : CAD Design Associate

Dassault Systèmes : Sustainable Design Associate

Dassault Systèmes : Additive Manufacturing Associate

Workshop : Eicher Training Centre, Coimbatore

NPTEL Course : Automation in Production Systems and Management – IIT Kharagpur - 2024

PROJECTS

5-Axis Robotic Arm for Pick & Place Operation | 2024

Designed and prototyped a **3D-printed** robotic arm with **Arduino**-controlled continuous servos, implementing custom PWM logic for accurate angular positioning and joystick based manual control for precise motion.

Automated Cattle Detection and Risk Mitigation System | 2025

Developed an AI-driven cattle detection system using **Raspberry Pi**, with real-time alerts via Firebase and a **Django**-based dashboard for remote monitoring and risk mitigation

Corncob Shredder | 2025

Designed and developed a working prototype of a corncob shredder aimed at efficient size reduction for agricultural waste management.

Redesign And 3D Printing Of Drone T-Joint | 2025

A lightweight, durable T-joint redesigned and 3D printed to improve drone frame strength and assembly efficiency

POSITIONS OF RESPONSIBILITIES

- **ISHRAE** : Student Member – 2024
- **MEA** : Student Member – 2024
- **NEC FineArts Club** : Student In-charge – 2022

PERSONAL INFORMATION

Date of Birth : 14-04-2005

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