



MOULIE SANKARAN S K

BE - MECHATRONICS ENGINEERING



CAREER OBJECTIVE

Seeking a challenging role in a forward-thinking organization where I can apply my mechatronics skills and contribute to innovative solutions in automation and control systems.

INTERNSHIP

Worked as intern at **Attox Research Laboratories (Attox)** starting **April 2024**, focused on completing the Micro+ prototype, reporting to Director Suganth Murugaraj.

PROJECTS COMPLETED

- **Hand Gesture controlled Robotic Arm Using Esp32 (May- 2025) KEC - ERODE**

Designed a robotic arm controlled by hand gestures using ESP32 Bluetooth for wireless communication. The system ensures real-time, reliable control for precise and intuitive robotic movements.

- **Hand Gesture controlled Rc Car Using Esp-Now (April- 2025) KEC - ERODE**

Developed an RC car controlled by hand gestures using ESP-NOW protocol for fast, wireless communication. The system enables smooth, real-time control of complex movements like forward, backward, and turns.

- **Air Quality Index (AQI) Based Smart System for Monitoring and Controlling Fan and Air Conditioner (Nov-2023) KEC - ERODE**

Developed an AQI monitoring system by utilizing various sensor to control the ON/OFF operation automatically for Fan and Air Conditioner, additionally it will monitor the air quality and temperature level.

- **Personalized Kit For Testing Residual Chlorine Level At Delivery Points (May-2025) KEC - ERODE**

Designed a portable testing kit to measure residual chlorine levels at water delivery points, ensuring water quality and safety. The system allows on-site, user-friendly monitoring for improved public health compliance.

- **E-BIKE (Nov-2024)**

IES UNIVERSITY - BHOPAL

Designed and developed an electric bike to encourage sustainable, efficient, and eco-friendly transportation.

PAPER PRESENTED

- **RAPID PEANUT DRYER (Nov-2023) ANNA UNIVERSITY - CBE**

Developed an automatic rapid peanut dryer to enhance efficiency and reduce drying time, integrating automation for improved productivity in peanut processing.

IN-PLANT TRAININGS

- **COGENT AUTOMATION PVT LTD**, Coimbatore, 5 Days, May 2024
- **SRI VELA SMELTERS PVT, LTD.,** Nammakal - 10 Days, Dec

MEMBERSHIPS

- **Joint Treasurer** in Robotics Club of KEC (2024 - 2025)
- **Active Member** in TRS of KEC (2023 - 2024)

CONTACT

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EDUCATION

- Bachelor of Engineering in Mechatronics Engineering,(CGPA – 7.78* Till 5th Semester) at Kongu Engineering College, Erode.
- Both completeing my schooling at Arulneri Thiruppani Mandram Hr,Sec,School , Erode - 638003.

SKILL SETS

- Eagle
- Proteus
- Solidworks
- PrusaSlicer
- Arduino, ESP Module
- TinkerCAD

AREA OF INTEREST

- Robotics
- 3D Modeling
- Internet of Things

LANGUAGES

- English
- Tamil (Native)