# DHINAKAR B

Mechatronics Engineer


**CONTACT**

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## PROFESSIONAL SUMMARY

Final-year B.Tech Mechatronics and Automation student at VIT Chennai with strong hands-on experience in embedded systems, PCB design, and control systems. Skilled in Arduino, ESP32, SolidWorks, Simulink, and Python, with experience developing autonomous robotics and automation projects. Proficient in integrating sensors and actuators for real-time data acquisition and control. Passionate about applying mechatronics and embedded technologies to build reliable, efficient, and scalable automation solutions.

## PROFESSIONAL EXPERIENCE

**Co-Lead | 2023-2025**

Atom Robotics , VIT Chennai

- Led 30+ members in multiple robotics projects including AGV,AMR
- Designed autonomous bots with embedded systems and custom PCBs
- Improved team workflow and hardware prototyping

**Project Intern | JUN'2024-JUL'2024**

Isuzu Motors India

- Studied skid movement automation; proposed automation solutions reducing downtime by 20%
- Worked with automation engineers to analyze assembly line operations
- Contributed to production optimization using industrial automation concepts

**Intern | JUN'2025-JUL'2025**

Sri Krishna Enterprises

- Designed an automated conveyor system for production line automation.
- Developed a system to detect and eject faulty products from the conveyor.
- Assisted in integrating sensors and actuators for defect detection and sorting.
- Contributed to improving material flow efficiency and reducing manual inspection time.

## EDUCATION

**Bharathi Academy - Namakkal | 2020**

10th CBSE

- Percentage : 90.8%

**The Navodaya Academy - Namakkal | 2022**

12th CBSE

- Percentage : 92.8%

**Vellore Institute of Technology - Chennai | Anticipated Graduation: 2026**

B.Tech in Mechatronics & Automation

- CGPA: 8.44

## TECHNICAL SKILLS

- **Embedded Systems:** Arduino, ESP32, Sensors and PCB designing
- **Control Systems & Simulation:** MATLAB, Simulink, Carmaker
- **CAD & Hardware:** SolidWorks, Fusion 360, Altium Designer, 3D Printing
- **Programming**: Python, HTML, CSS, Java
- **IOT Tools:** Arduino IDE, Git, ROS2, ESP-IDF

## PATENTS PUBLISHED

**Energy harvesting Suspension | 2025**

3 different Approaches to harvest energy from suspension and provide health monitoring using on TENG

**App.no :** 202541059380
202541056886
202541056665

**Aquaculture Monitoring System | 2025**

Swarm-Based AI-Powered Moored Buoy and Glider System and Method for Real-Time Aquaculture and Ocean Monitoring

**App.no :** 202541078699

## SOFT SKILLS

Leadership & Team Management | Problem-Solving | Quick Learning | Collaboration & Teamwork | Documentation

## LANGUAGE

English | Tamil | Hindi (Basic)

I declare that the details given above are true to the best of my knowledge.