SHANTANU SABLE

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PROFESSIONAL SUMMARY

B.E. graduate in Mechatronics Engineering with hands-on internship experience in semiconductor manufacturing, industrial automation, and embedded control systems. Gained practical exposure to semiconductor assembly and test processes at RRP Electronics Pvt. Ltd. and utility automation systems including SCADA and RTU-based railway electrification at Ashida Electronics Pvt. Ltd.. Skilled in embedded systems, control logic, and microcontroller-based project development using Arduino and ESP modules. Seeking a Graduate Engineer Trainee role to contribute to electromechanical system development, testing, and automotive mechatronics.

TECHNICAL SKILLS

Programming: Embedded C,
Embedded Systems: Arduino, ESP8266, ESP32
Automation: PLC Fundamentals (Ladder Logic, FBD) , SCADA & RTU Fundamentals
Tools: Ki-cad, Autodesk Inventor, Tinkercad, Automation studio(B&R)
Core: Control Systems

EDUCATION

Terna Engineering College | **MU** | Sep 2023 - Jul 2026
BE : Mechatronics Engineering | CGPA 7th Sem (7.86)

GP ch.sambhajinagar | Jul 2020 - May 2023
Diploma in Electronics and Telecommunication | 69%

Swami Vivekanand academy | June 2020
SSC | Maharashtra state board | 86%

INTERNSHIP

1) **RRP Electronics Ltd.** **Jan 2026 - Mar 2026**

Semiconductor Assembly & Test Intern

Acquired hands-on experience in semiconductor backend manufacturing processes including wafer back grinding, dicing, saw singulation . Learned the semiconductor packaging and testing processes and assisted with inspection and process monitoring.

2) **Ashida Electronics Pvt. Ltd.** **Jun - july 2025**

Utility & Railway Automation Intern

Learned industrial automation systems by watching SCADA based railway electrification projects. Learned about RTU architecture, substation automation, relay systems and application of FAT/SAT procedures in utility automation.

3) **Online Internship (Tinkercad + Arduino)** **Mar 2023**

IoT & Embedded Application Intern

Designed and simulated IoT-based automation systems using Arduino UNO on the Tinkercad platform. Gained exposure to sensor interfacing and embedded control logic through virtual automation projects.

PROJECTS

Project 1: Smart Soil Irrigation System – Diploma Final Year Project

Developed an automated irrigation system using Arduino and soil moisture sensors for efficient water management. Enabled real-time pump control and optimized irrigation automation.

Project 2: GPS-Based Child Safety Device – 2nd Year Engineering Project

Designed a GPS-GSM based wearable tracking system for real-time location monitoring and emergency alert communication. Programmed reliable tracking logic using embedded C.

Project 3: Virtual Path-Guided Indoor Bot for Surveillance – 3rd Year Engineering Project

Developed an EEPROM-based autonomous robotic bot with predefined path navigation and ESP32-CAM live monitoring. Integrated servo-based camera control for surveillance applications.

Project 4 : Project: Mechanical to Electric Cycle Conversion (E-Cycle) - Major Project

Designed and developed a modular E-bike transformation kit to convert a conventional bicycle into an electric-assisted cycle using an ESP32-controlled BLDC motor drive system. Performed power, torque, and speed analysis, designed the friction-drive roller mechanism, integrated battery management and control components, and optimized the system for efficient power transmission, rider safety, and sustainable urban mobility.