

Harsh Suryawanshi

D-Block, VJTI Hostel, Matunga, Mumbai-400019

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Education

Veermata Jijabai Technological Institute, Mumbai <i>Bachelor of Technology in Electronics Engineering (CGPA – 6.69)</i>	Aug. 2024 – Current <i>Mumbai</i>
Government Polytechnic Jalgaon. <i>Diploma in Electronics and Telecommunication Engineering (Percentage: 86.88%)</i>	June 2021 – May 2024 <i>Jalgaon, Maharashtra</i>
K. Narkhede Vidhyalaya <i>SSC, Board (SSC Percentage – 85.60%)</i>	May 2020 <i>Jalgaon, Maharashtra</i>

Internships

Shivam Electromech.

Industrial Trainee

June 2023 - July 2023

- Worked on IoT security standards, vulnerabilities and frameworks.
- Worked with microcontrollers and IoT hardware for automations and custom built solutions.
- Assisted in developing custom-built hardware solutions for industrial use.
- Assisted in **building a dynamic stabilizer and PCB manufacturing** from copper-clad to final assembly

Projects

Modernizing LED Matrix Display Board | *Embedded C, Wireless Communication*

- Analyzed IoT security standards, potential solutions, and vulnerabilities, while mapping classification frameworks for wireless display system
- Explored and evaluated multiple solutions, including converters, communication 8051 microcontrollers, and ESP32, to enhance system. Successfully integrated the HD-00W v7.0.1 controller, replacing USB-based transmission with a secure, scalable wireless system.

Water Genesis – Sea (Salt) Water Desalination | *Microcontrollers & Embedded Systems, Embedded C*

- Developed a portable desalination system using Multi-Effect Distillation (MED) technology to convert seawater into drinking water.
- Focused on **energy efficiency, cost-effectiveness, and scalability**, making the system suitable for **marine agencies and water-scarce regions**.

Technical Skills

Languages: Embedded C, JavaScript, Python

Frameworks and Technologies: HTML, CSS, React, Express.js, node.js, Pandas

Relevant Coursework: Arduino, Scalable Designing, Data analysis, ESP32

Software tools: Proteus, MATLAB.

Positions of Responsibility

Sponsorships executive, Technovanza VJTI

- Secured more than 3.4Lakhs worth of sponsorships for technovanza 24-25.

Campus Ambassador of Moodindigo - IIT Bombay Asia's Largest Cultural Fest

- Promoted Asia's Largest Cultural Fest, engaged in outreach, and increased event participation from VJTI.

Achievements

- Completed more than 20+ Micro-Projects.
- Developed and completed 3 capstone projects.
- Selected for Dipex 24-25 under Waste Management category.