

# AHMED NAKHWA

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## Education

### Thadomal Shahani College of Engineering

B.E in Electronics and Telecommunication

Aug. 2024 – Expected May 2027

Bandra, Mumbai

### Bharati Vidyapeeth Institute of Technology

Diploma in Electronics and Telecommunication

Aug. 2021 – June 2024

Kharghar, Navi Mumbai

## Technical Skills

**Languages:** Python, SQL

**Libraries:** Pandas, NumPy, Matplotlib

**Web Technologies:** React, Next.js, Tailwind CSS

**Databases:** MySQL, Firebase

**Tools:** Git, VS Code, Arduino IDE, MS Excel, PowerPoint, Power BI

## Experience

### President (Previously Head of Design)

May 2024 – May 2025

ISTE-TSEC

Bandra, Mumbai

- Promoted from Design Head to President in recognition of consistent cross-functional leadership across multiple stages of committee operations.
- Secured 3–4 sponsors including Red Bull, managing outreach, relationship-building, and coordination through to execution.
- Led execution of committee-wide events including the fresher event and multiple workshops, overseeing planning, resource coordination, and on-ground.

### Intern

June 2023 – Aug 2023

Saitronics

Panvel, Navi Mumbai

- Contributed to 4 engineering projects, translating project requirements into functional prototypes and deliverables under mentor supervision.
- Practiced active listening and quick learning during mentor briefings, ensuring each deliverable was correctly aligned with the assigned requirements before starting the build.
- Collaborated closely with fellow interns, freely sharing knowledge and supporting one another through hands-on builds reflecting strong teamwork and communication in a fast-paced environment.

## Projects

### Smart Plant Care Assistant System | ESP8266, MQTT, IoT Sensors, Automated Irrigation

2024

- Developed a software interface to monitor plant growth and soil conditions, control water/fertilizer delivery, and generate downloadable user reports.
- Engineered automated fertilizer/water delivery timed to peak crop growth stages with soil-moisture-based alerts, reducing crop destruction by over 20%.

### Touch Activated IoT Controller | ESP8266, HC-05 Bluetooth, Wi-Fi Module, Fingerprint Sensor

2025

- Built a hardware-based IoT retrofit system that converts conventional appliances into smart, wirelessly controlled devices and integrates them with a unified mobile application.
- Built a mobile-app-controlled appliance automation system retrofitting non-smart home appliances with WiFi/Bluetooth modules, reducing cost by 80% vs. conventional smart-device solutions.

### Multi-Division Corporate Web Platform | Next.js, React, TypeScript, Tailwind CSS.

2026

- Built a responsive multi-page business platform integrating engineering, housing, and interior-service divisions through a unified web interface.
- Implemented reusable React components, dynamic navigation, service/project showcases, contact sections, and animated UI interactions for a responsive user experience.

## Key Achievements

- Academic Topper for all the semesters in Diploma
- Winner, State-Level Technical Paper Presentation & State-Level MSBTE Project Competition
- Winner, Departmental Project Competition – TSEC, 2025 & 2026
- Class Representative for Diploma batch (180 students) and B.E. batch (25 students)
- Winner, 4 Inter-Collegiate Quiz Competitions - BVIT (2), Fr. Agnel (1), TSEC (1)
- Best President Award - ISTE TSEC, recognized for outstanding leadership and contributions to the committee
- Anchored 10+ events across school, diploma, and degree, including Alumni Meets, Freshers Events, and Annual Days.