CONTACT

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EDUCATION

- B.E.Electronics & Communication Engineering [Chendhuran College of Engineering And Technology] - (2022-2026)

SKILLS

- Programming: C, Embedded C, Python, HTML, CSS, JavaScript
- Microcontrollers: ARM Cortex M4, Arduino, ESP32, Raspberry Pi
- Tools: PCB Design Software, MATLAB, IoT Platforms, Figma
- Web Development: Front-end design using HTML, CSS, JavaScript; basic UI/UX design
- Other: Design Thinking, Problem Solving, Project Collaboration

NAMBURAJAN. M

ELECTRONICS AND COMMUNICATION ENGINEERING

PROFILE

A passionate Electronics and Communication Engineering student with hands-on experience in embedded systems, IoT, automation, PCB design, and Raspberry Pi development. Skilled in using microcontrollers like ARM Cortex M4, Arduino, ESP32, and Raspberry Pi for innovative projects. Strong problem-solving abilities, eager to apply knowledge in real-world solutions and collaborative team environments..

EXPERIENCE

✅ 30-day Internship on ESD ARM Cortex M4 (Tamil)
Pantech Prolabs Pvt Ltd
Completed embedded system design training using ARM Cortex M4, covering GPIO, interrupts, timers, and real-time interfacing.

✅ Workshop Trainee – Mechnido, Coimbatore
Hands-on learning in IoT, automation, embedded systems, and PCB design. Built mini-projects integrating sensors, microcontrollers, and PCB layouts for prototypes. Gained exposure to real-world applications and teamwork in product development.

✅ Intern – AVM Battery Company (3 days)
Basic exposure to battery manufacturing and testing processes.

PROJECTS

- Smart Irrigation System: IoT-based soil moisture-controlled irrigation system.
- Solar Tracking System: Automated solar alignment using LDR + servo.
- Radar System: Obstacle detection via ultrasonic sensor + servo.
- Door Locking System: Password-protected access using keypad + servo.
- Rescue Drone (SIH 2024): Drone with GPR, thermal, and AI for disaster rescue.
- Automated College Checkpost: RFID + camera-based automated entry system.
- Smart Dustbin: RFID-based access for authorized waste collection.
- Drinking Water Automation: Multi-temp water dispenser with touchscreen control.
- Water Filtration Automation: Auto-routing water for drinking or re-filtering based on quality.
- Automatic Street Light: Solar-powered lights with photocell control (17 posts over 650m).
- Raspberry Pi Home Automation: Controlled home appliances via Pi + mobile app.
- Raspberry Pi Face Recognition Lock: AI-powered face recognition for door security.
- Front-End Website Design: Designed responsive websites using HTML, CSS, JavaScript; created portfolio and IoT dashboard mockups.

CERTIFICATES

- Embedded Systems Design (ARM Cortex M4) – Pantech Prolabs Pvt Ltd
- IoT and Embedded Systems Workshop – Mechnido
- PCB Design – (In progress)
- Front-End Web Development – (Self-learned + practice projects)
- Successfully completed 72 hrs on Product Development issued by SEED in association with Mechnido
- Successfully completed 56 hrs on Reverse Engineering issued by SEED in association with Mechnido
- Successfully completed 56 hrs on Design Thinking issued by SEED in association with Mechnido

ACHIVEMENTS

- Completed Python Course for Beginners With Certification: Mastering the Essentials
- TANSAM Hackathon: Successfully cleared Level 1, Level 2, and Level 3 rounds demonstrating IoT and automation innovation.
- Finalist – Smart India Hackathon 2024: Selected for national-level with Rescue Drone project.
- Presented projects at college/inter-college technical expos and symposiums.
- Startup concept: Affordable PCB design services for educational institutions.

INTREST

- Embedded AI & IoT integration
- Robotics & EV systems
- Web-based IoT dashboards

LANGUAGES

- English (Fluent)
- Tamil (Native)
- Hindi (Basic)

HOBBIES

- Drone racing
- Blogging on tech
- Open-source contribution