ATHARVA PHADKE

Full Stack Embedded Developer

atharvaphadke8@gmail.com

9860025323

Pune, Maharashtra

linkedin.com/in/atharvap8

TECHNICAL SKILLS

CORE EXPERTISE

- STM32, ESP32, Arduino, Embedded C/C++

PROTOCOLS & IOT

- UART, SPI, I2C, RS232/485, MQTT, WiFi

TOOLS & HARDWARE

- STM32CubeIDE, VSCode, ESP-IDF, KiCAD, Git

SYSTEMS

- Linux, FreeRTOS, HTML/CSS/JS Stack(WEB-D)

LANGUAGES

- English - Professional
- Hindi - Fluent
- Marathi - Native

HOBBIES

- Badminton
- Cycling
- Listening to Music
- Singing
- Photography
- Playing Instrument - Harmonium

SUMMARY

Obsessed with electronics for 5+ years, starting in an electronics shop, and tearing down appliances to understand real certified system design thinking. Currently leveling up into embedded firmware and motor driver design. I like to play harmonium, badminton, travel, and take pictures while on break. I am fueled by my curious nature, and the urge to understand how things work, internally.

EXPERIENCE

Embedded Systems Intern

Anedya Systems Pvt. Ltd.

📅 December 2025 - Present 📍 Pune, Maharashtra, India

Working on IoT device integration and embedded systems development for cloud-based monitoring solutions.

Electronics Engineer

Team Automatons, PCCoE

📅 December 2025 - Present (3 months) 📍 Pune, Maharashtra, India

Designing and developing robotic systems for ABU-ROBOCON 2026. Focusing on R&D & reducing EWaste by repairing components and devices.

Embedded Intern

Velous Tech Solutions Pvt. Ltd.

📅 June 2025 - November 2025 (6 months) 📍 Pune, Maharashtra, India

An internship about STM32 microcontroller development, RTOS implementation, and industrial IoT applications. Gained expertise in peripheral integration such as- GPIO, timers, PWM, ADC, communication protocols such as- UART, SPI, RS232/485, and motor driver design/optimization for industrial automation systems.

Embedded System Designer

Upwork (Freelance)

📅 March 2024 - May 2024 (3 months) 📍 Raigad, Maharashtra, India

Designed and Implemented a smart LED tubelight controller using XIAO ESP32 with having features such as Remote endpoint brightness control, and switch control. Additionally added a low power mode for energy efficient appciations, and real-time status updates.

EDUCATION

Bachelor of Vocation (B.Voc.) - Internet of Things (IoT)

PCET's Pimpri Chinchwad College of Engineering, Nigdi

📅 September 2024 - August 2027 (Expected)

CERTIFICATIONS

- Linux Commands & Scripting - IBM
- Version Control with Git - Atlassian
- Hands-on IoT - University of Illinois
- Introduction to Automotive Embedded Systems - Starweaver

TOP SKILLS

- Schematic Capture
- PCB Design
- Creativity and Innovation
- Reverse Engineering
- Hardware Debugging
- Teamwork

HONORS & AWARDS

- 2nd Runner-Up – INNOVISION 2025
- 2nd Runner-Up - Technovate 2025

INTERESTS

- Robotics & Automation
- PCB Design
- Automotive Electronics
- Anime & Sci-Fi Movies

PROJECTS

Advanced IoT Washing Machine

📅 April 2024

Smart washing machine prototype with ESP32 and Alexa integration featuring voice control, real-time mode switching, "Command Mode" for module testing, and advanced hardware logic to simulate real washing machine behavior.

View Project Details

IoT Enabled Smart Inverter

📅 July 2025

Smart inverter monitoring and control via web dashboard with real-time tracking of battery status, power consumption, and system health. Features automatic protection against overload, low battery, and overheating. Tested for reliability in actual use. Open source project.

View Project Details

ESP32C3 Room Automation

📅 July 2025

Room Automation Controller using ESP32-C3 on custom PCB featuring Alexa voice control via Sinric Pro, IR remote support, and manual switches. Three relay outputs for appliances. PCB designed in EasyEDA, made and hand-assembled. Small display for status in a compact enclosure.

View Project Details

BLE Based Car Security System

📅 January 2024

Central locking and security system. Features keyless entry via smartphone or dedicated ESP32C3 transmitter, realtime intrusion detection, anti-theft alerts, valet mode, and key programming. Successfully tested and implemented on Wagon R.

View Project Details

IoT Gas Safety System

📅 June 2020

Developed a fireproof IoT gas safety system with exhaust fan control, automatic valve shutoff, siren alert and mobile notifications. MQ-5 was used to detect concentration of LPG, methane, CNG, etc. ESP8266 & Blynk was used to add the IoT Functionality.

View Project Details

HONORS & AWARDS

2nd Runner-Up - Technovate 2025 (Electrothon)

PCET's PCCoE&R, Ravet

2nd Runner-Up – INNOVISION 2025 (Project Showcase)

JSPM's Rajarshi Shahu College of Engineering, Tathawade