

# ADITYA M SOLLAPUR

## SOFTWARE ENGINEER T02

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Greetings, I am Aditya, an experienced Embedded Engineer with over three years of expertise at Asmaitha Wireless Technologies Pvt Ltd, specializing in firmware development. My professional objective is to advance the field of embedded development and contribute to impactful and meaningful projects. I thrive in environments that foster innovation and continuous learning, consistently seeking new opportunities to apply my skills and creativity.

## WORK EXPERIENCE

### Software Engineer T02 at Asmaitha Wireless Technology

Bangalore, Karnataka • Jun 2021 – Present

- Proficient in ARM Controller STM32 and DA16200 firmware development.
- Skilled in Embedded C and multithreaded programming.
- Experienced in RTOS communication and synchronization.
- Expert in JTAG, UART, and ST-LINK/V2 debugging.
- Proficient in board bring-up and hardware debugging.
- Experienced in schematic interpretation.
- Effective client technical support.
- Comprehensive testing for reliability.
- Detailed module documentation creation.

### Software Engineer T02 at Elecon Innovations

Bangalore, Karnataka • Nov 2020 – May 2021

- Proficient with NODE MCU (ESP8266, ESP32), knowledge of STM32, ARDUINO families.
- Knowledgeable in UI design.
- Skilled in designing, coding, testing and debugging embedded systems.
- Experienced with Embedded protocol standards including SPI, I2C, and UART.
- Familiar with Electronics Principles.

## EDUCATION

### KLE polytechnic Mahalingapur

Diploma Engineering (Electronics & Communication)-2018.

## SKILLS

**Programming Languages:** C, C++, Embedded C/C++.

**Communication Protocols:** I2C, UART, SPI.

**Microcontrollers:** STM32(STM32L4R9AI, STM32L4S9AI), ESP(ESP32), Da

16200(Dialog's), ARM(STM32).

**IDE:** STM32CubeIDE, Espressif-IDE, Eclipse IDE.

**Version Control:** Git, Bitbucket, SVN.

**GUI Development Tools:** Touch-GFX.

**OS/RTOS, Other Tools/Libraries/Guidelines:** Free RTOS, Misra C, Jira, Confluence, SourceTree, Stm32CubeProgrammer, Stm32CubeMX, Basic Linux commands, Wireshark, MQTT Explorer.

## PROJECTS

### Quent-Patient Monitoring Watch V1

Description:

a wellness device with an intuitive interface and advanced health monitoring capabilities, including real-time tracking of vital signs (Heart Rate, SPO2, ECG, BP, body temperature). Features Wi-Fi and BLE connectivity for seamless synchronization with internet and smartphone.

Environment:

STM32L4S9AI, STM32CubeIDE, AS7030, Eclipse, Touch-GFX, STM32CubeProgrammer

Role:

Development

Responsibilities:

- Developed Touch-GFX based user interface for enhanced user experience.
- Updated sensor database model for optimal functionality.
- Creating flowcharts and documentation detailing the respective processes and functionalities.
- Overseeing a UI team consisting of three members, including myself.

### Quent-Patient Monitoring Watch V2

Description:

Development of application for MQTT interface and mosquito broker, worked on Renesas DA16200 Wi-Fi chip.

Environment:

VS Code, Eclipse IDE, Wireshark, STM32CubeIDE, AS7050, MQTT Explorer.

Role:

Development, Testing

Responsibility:

- Integrated pre-existing Wi-Fi codebases, incorporating client-specific modifications to ensure seamless alignment with project requirements.
- Played a key role in developing innovative solutions to enable seamless operation of Wi-Fi technologies.
- Writing a platform independent code to run simultaneously on the host and co-processors (**STM32, DA16200**).
- Ensured robust communication between three controllers via UART optimizing data transfer reliability and efficiency.
- Integration of Wi-Fi Packet Formation format for sending a data from device over mosquito broker to MQTT.
- Analysis and testing of data sent over different layers using Wireshark.

## CERTIFICATION

Embedded system course from Cranes Varsity Bengaluru- 2020.