

AKSHATHA H A

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PROFESSIONAL SUMMARY

Associate Firmware Engineer with 1.7+ years of experience and 6 months internship (converted to full-time based on performance). Skilled in Embedded Systems, STM32, FreeRTOS, and real-time firmware development. Strong experience in communication protocols, driver development, and embedded UI systems.

PROFESSIONAL EXPERIENCE

Associate Firmware Engineer | [75F Engineering Services India Private Limited.]

[Sep - 2025] – Present

- Developed embedded firmware using C on STM32 microcontrollers
- Implemented FreeRTOS-based task scheduling and real-time features
- Worked on UART, SPI, I2C, and Modbus communication protocols
- Developed LVGL-based UI systems for MyStat, Smart Node, and multiple devices
- Integrated display drivers and QSPI interfaces
- Debugged and optimized firmware performance and memory usage

Firmware Engineer Intern (Converted to Full-Time) | [75F Engineering Services India Private Limited]

[March - 2025] – [Sep - 2025]

- Assisted in firmware development and debugging
- Worked on hardware interfacing and peripheral configuration
- Performed testing and validation
- Converted to full-time role based on performance

TECHNICAL SKILLS

Languages: C, Embedded C

Microcontrollers: STM32, ATSAM51

RTOS: FreeRTOS

Protocols: UART, SPI, I2C, Modbus

Tools: STM32CubeIDE, MPLAB, Git

Frameworks: LVGL

EDUCATION

- Bachelor of Engineering (Electronics and Communication Engineering)
The National Institute of Engineering, Mysuru.
- Diploma – Govt Polytechnic for Women, Hassan

PROJECTS

- IoT-Based Plant Irrigation System using Arduino and sensors
- Self-Balancing Robot using MPU6050

- **ACHIEVEMENTS**

- Secured a campus placement offer from L&T Technology Services (LTTS) based on technical and aptitude evaluation