

SALAMMA RAMAVATH

Hyderabad, Telangana.

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PROFESSIONAL SUMMARY

- **Junior Embedded Engineer** with 1 year of experience in defense sector and medical applications at FalconX Electro Technologies Pvt Ltd.
- Completed Advanced Embedded Systems course from Vector India Pvt Ltd.

EXPERIENCE SUMMARY

- Hands-on Junior Embedded Engineer experience in Embedded software application developer, firmware programming.
- Hands on experience in embedded C programming on 8051, STM32, Atmega32U4, Atmega64 Micro controllers.
- Hands-on experience in C programming.
- Familiar with debugging tools such as Oscilloscopes, Logic Analyzers, JTAG and Multimeters.
- Experience in Peripherals like UART, I2C, SPI, CAN.

SKILL SET

- Programming Languages : C, C++, Embedded C.
- Operating Systems : Linux (Ubuntu), Windows.
- Communication Protocols : UART, I2C, SPI, CAN and IPCs.
- Software Development : Problem solving, debugging, optimization.
- IDEs : Code Vision AVR, STM32 Cube IDE, XILINX(Vitis), Dock light scripting, Microchip studio, Extreme burner.
- Debugging Tools : Oscilloscopes, Logic Analyzers, JTAG, Multimeters.
- Controllers : 8051, AVR, STM32.

EDUCATIONAL QUALIFICATIONS

Bachelor of Technology (ECE)	2018-2022
Dr. Samuel George Institute of Engineering and Technology.	
CGPA 7.1	
Board of Intermediate Education (MPC)	2016-2018
APSWRIES Jr. College	
CGPA 7.87	
Board of Secondary Education	2015-2016
APSWR School	
CGPA 7.7	

Project 1:

Name of the Project	: Blood Sample Analysis with Stepper Motors
Organization	: Nference
Hardware	: Atmega32U4
Communication Protocol	: I2C
Tools and Languages	: Code Vision AVR, Docklight scripting, C, Embedded C,

Project Description:

The Blood Sample Analysis with Stepper Motors project focused on developing an efficient system to control stepper motors for precise movements required in the analysis of blood samples. The project involved receiving and processing commands via USB communication, converting existing Arduino code to C code. Reducing flash memory usage from 70% to 50%.

Project 2:

Name of the Project	: HMC833 PLL Frequency Synthesizer
Organization	: Astra Microwave Product Ltd.
Hardware	: Atmega64
Communication Protocol	: UART
Tools and Language	: Code Vision AVR, Docklight scripting, C, Embedded C

Project Description:

Design and develop a frequency synthesizer using the HMC833PLL (Phase_Locked_Loop) chip, control via UART communication protocol. The system should lock at Specific frequencies within the 4190-4390 MHZ range based on commands received through Docklight.

CERTIFICATIONS

Embedded System Course

June - 2023

Vector India Private Limited

Acquired foundational Knowledge in Embedded system design and development.

PERSONAL INFORMATION

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