**GOWTHAM SRI HARSHA KUDULLA**  
**Embedded Software Engineer**   
Hyderabad, Telangana

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**Roles & Responsibilities:**

**Embedded Software Developer I @ UST Global [February’25 – Present]**

* Hands-on trained in the operation and application of the CANoe tool.
* Prepared test cases for integration testing procedures between the Application Layer and Data Link Layer during J1939 Stack Development

**Jr. Automotive Software Engineer at Sri Rushi Consulting Services [April’24 – Jan’25]**

* Completed comprehensive training on Vector CANoe, focusing on CAN network simulation, test case development, and bus communication analysis.
* Utilized CAPL scripting to automate testing procedures and simulate ECU behaviors while configuring CAN databases.
* Developed an Adaptive Cruise Control (ACC) system using CAN communication to maintain safe distances from forward vehicles.

**Embedded Software Intern at Centronix Pvt Ltd. [February’22 - April’22]**

* Controlling LCD (Hitachi HD44780) using Keypad Interfacing on 8051 Microcontroller.
* Worked on 555 timers and counters for World Clock logic on 8051 Microcontroller.

**Certifications:**

**Embedded Software Developer Certification at Kernel Masters**

* Developed a solid understanding of core concepts of C programming, and microcontroller programming, establishing a strong foundation in embedded systems development
* Hands-on Experience in **STM32F401RBT6** Microcontroller and **ARM CORTEX M4 Microprocessor**.
* Built an end-to-end System called **Smart Weather Monitoring System on** STM32F401RBT6 **Using** Keil and ST-Link Debugger.

This Smart Weather Monitoring System, reads temperature data from the LM35

sensor, prints on LCD for every 1 sec delay, and sends it to the Web server for every 10 sec delay.

**Projects:**

* ACC (Adaptive Cruise Control) Project using CANoe Tool
* Heart Rate Monitoring Using IOT (Internet of Things) using Arduino Uno
* Ternary Multipliers by using Carbon Nanotube Field Effect Transistor **(Major Project)**

**Skills:**

**Programming:** C, CAPL, Linux System Programming

**Protocols:** UART, SPI, I2C, CAN

**Tools:** GIT, Keil, CANoe Tool

**Education:**

**Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad [June’19 - July‘23]**

Electronics and Communication (ECE) | CGPA: 7.4