

AMEETH ASHOK PATTANASHETTI

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PROFILE

To work as an Embedded Software Engineer in your progressive organization that allows me the scope to update my knowledge to the latest trends and be part of a diverse and dynamic team that adds to both my personal and professional growth.

EDUCATION

Saptagiri College Of Engineering, Bangalore

2017 - 2021 | Bachelor Of Electronics And Communication Engineering (B.E)

CGPA - 7.4

St Joseph's Indian Composite P.U College, Bangalore

2015 - 2017 | PCME

Percentage: Overall-76, PCME-78.25

St Mark's Convent, Bangalore

2014 - 2015 | SSLC

Percentage-86

SKILLS

- C Programming
- C++ Programming
- Linux System Programming
- Microcontroller Programming (hands on programming with 8bit and 32bit MCU's)
- Hands on experience with ethernet protocol

EXPERIENCE

Exaleap Semiconductors | Junior Software Engineer

Feb 2022 – Oct 2023

Role Summary: Successfully performed validation of Ethernet protocols across TCP/IP and OSI layers, ensuring robust and reliable network performance.

Key Responsibilities:

- **Acceptance Testing:** Designed and executed acceptance tests to ensure that Ethernet implementations met defined requirements and performance standards.
- **Regression Testing:** Performed rigorous regression testing to identify and mitigate issues introduced by new code changes, maintaining high standards of network reliability and stability.
- **Use Case Development:** Developed and executed use case scenarios to simulate real-world network conditions, validating Ethernet performance under various operational environments.

- **Performance Monitoring:** Monitored and analyzed network performance, identifying and resolving issues to optimize functionality.
- **Collaborative Troubleshooting:** Worked closely with senior engineers and team members to troubleshoot network issues and implement effective solutions.
- **Documentation:** Maintained comprehensive documentation of test plans, results, and issues, ensuring clear and effective communication of findings.

ACADEMIC PROJECT

C Project:

Student Database Management

- Singly Linked List is used to create the record of each student.
- Adding, Deleting, Sorting, Searching of the records are the functionalities implemented.

C++ Project:

String Class Implementation

- Implemented C++'s string Class.
- Dynamic memory allocation, Constructors (default, copy, assignment), and string manipulation functionalities are implemented.

MINI PROJECTS

Microcontroller Projects:

1. Bluetooth Controlled Home Automation System

- Microcontroller is interfaced with HC-05 Bluetooth module using UART.
- The devices can be controlled either in Manual mode (using inbuilt switches) or Bluetooth mode.
- Android application is used to send commands to HC-05 to turn on or turn off the devices when in Bluetooth mode.

2. Data Acquisition System

- Data Acquisition: ADC1(converts the potentiometer voltage to a digital value), ADC2(converts the temperature sensor's voltage to corresponding temperature value in degree), ADC3(converts the LDR's analog signal to a digital value indicating the light intensity).
- Data processing: Microcontroller processes the digital outputs from the ADC's, performing necessary calculations.
- Display: The processed values are sent to the 8*16 LCD display.

3. Vehicle Control System Using CAN protocol

- Two Microcontrollers are used as node-A and node-B for communication using CAN protocol.
- The node-A MCU is used for sending the commands.
- The node-B MCU is used to receive commands through CAN bus and control the devices accordingly.