

Supriya Chakilam

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Skills

Languages: C, Embedded C, Python, Java

Technologies & Tools: IoT (Internet of Things), TCP/IP protocol, Microcontrollers, Computer networks, Wi-Fi protocol, Git, Linux, DSA, HTML, Visual Studio Code, I2C, SPI, UART, Keil IDE, Communication Systems, Digital Electronics, Wireshark, Ping, Iperf.

Work Experience2

Silicon Labs, Hyderabad

June 2023 - Present

Associate Application Engineer-Product & System Apps, Wireless

- Adapted **WLAN examples** to **Simplicity Studio IDE** for 91x chipsets.
- Performed security, throughput, and regression tests on 91x SoC and NCPs.
- Trained **FAEs** globally about developing projects with 91x dev kits.
- Addressed **WLAN issues** such as Roaming, Throughput, Driver Porting, Co-existence (WLAN+BT), Concurrent Mode, Power Saving, and Background Scanning.
- Replicated, debugged, and resolved customer issues across multiple platforms, handling **Tier-0 to Tier-4 issues** to ensure smooth integration and production transitions.
- Developed **HAL SPI** interface for 91x chipsets on EFM32/EFR32 host MCUs using Simplicity Studio.
- Authored technical documentation and application notes on power-saving modes and MCU porting.
- Proficient in debugging tools: **Keil IDE**, Sniffer Card, Wireshark, SPI Analyzer, Spectrum Analyzer.
- Experienced with **Git** and **Jira/Salesforce** for customer tickets, reports, and bug fixes.

Application Engineer Intern

May 2022 – August 2022

- Worked on **Roaming project** using various Boards with Windows and Linux.
- Worked with AT commands, establishing connections between server & client.

IOT Intern | IIC Club

April 2021 – July 2021

Trained in **Arduino**, **ESP8266**, Sensors Interfacing and Io T.

PROJECTS: Line Follower Bot, Bluetooth control Bot, Voice Controlled Bot, Obstacle Avoiding Bot & many more.

Education

Birla Institute of Technology and Science, Hyderabad

July 2024 – Present

Web-Enabled MTech in Electronics Engineering

- Pursuing master's in Embedded Systems.
- Course work:** Real time systems, Software for Embedded Systems, RTOS.

Chaitanya Bharathi Institute of Technology, Hyderabad

June 2023

Bachelor of Engineering in Electronics and Communication Engineering (**CGPA 9.0**)

Kamala Nehru Polytechnic, Hyderabad

May 2020

Diploma in Electronics and Communication Engineering (**Percentage: 97%**)

Projects

- Multi feature Application** - Developed an IoT application in **Embedded C** with multiple features like **SPI** configuration, host RTC, SNTP, **DNS**, and WPA/WPA2/WPA3 support. On top of it, implemented dynamic listen interval updates, 3 **SSL** socket connections, BG scan, and dynamic certificate loading. Finally Integrated **AWS MQTT**, asynchronous/synchronous socket APIs with **callbacks**, and WLAN statistics monitoring.
- Roaming** - Created a **TTL script in python** language for Roaming application
- Drone** - A Remote Controlling Drone with attached camera for monitoring
- Education Academy Website** - Developed a website using **HTML and CSS**
- Smart Home** -A Home automation system using **ESP8266** Wi-Fi module

Awards and Certificates

- Received **Bug Buster Award** for solving technical bugs in the team.
- Secured **State 22nd** rank in ECET Exam and **District 1st** in POLYCET Exam.
- URAM SCHOLAR** - Selected for URAM Scholarship among **all Indians** based on Academic excellence.
- Learn **Python** Programming Master Class and **Data Structures and Algorithms** using **C** from Udemy
- Received **Young Leader Award** from college in recognition of leadership qualities in organizing/participating in educational, social, and cultural events at various forums while being good at academics.