



ANJALI KUMARI

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SUMMARY

I am Seeking a position to utilize my skills and abilities in an industry that offers professional growth while being resourceful, innovative and flexible. My Goal is to pursue the knowledge, which will strengthen and sharpen my technical skill and make me competent to face the global challenges in the to become an asset to the organization .

PROFESSIONAL EXPERIENCE

- Zentree Labs Pvt Ltd** 📍 Hyderabad Telangana
Embedded Software Engineer 📅 03/2023 to Present

EDUCATION

Bachelor of Technology in Electrical and Electronics Engineering 📅 2019-2023
Centurion University of Technology & Management 📍 Gajapati Odisha
9.18 CGPA

TECHNICAL SKILLS

Programming Language	C, C++, Embedded C, Python, ML, Bash Scripting
Data structures	Linked Lists, Double Linked List
Algorithms	Searching and Sorting
Debugging Tools	GDB, Cadence, Xilinx, MATLAB, VMWare, PyCharm
System Programming	File management, signals, Threads(SYSTEM-V,POSIX), Process Management, Pipes, named pipes, Shared memory, Semaphore(SYSTEM-V,POSIX), Mutex
Embedded Peripherals	GPIO Pins, Analog I/O, Memory Usage, Interrupts
Communication Protocols	UART, I2C, SPI, CAN
Networking Protocols	TCP/IP, UDP, Socket Programming, JTAG
Wireless communication	BLUETOOTH, Wi-Fi, BLE
Operating system	Linux (Ubuntu), Windows
Tools	Putty, GIT, GitHub, Jenkins
IDE's & Compiler	Code composer studio, Arduino IDE, Segger, Visual Studio
Boards worked on	ESP32, MSP432, Arduino, STM32, Raspberry Pi, NRF52833
Device Driver	Make Files, Make Utilities and Static, Dynamic Library Creation, Char Driver, IO Mapped Devices

PROJECTS

Title: Commercial Grade RO Filter

Role: Developer

Software & Tools: Code Compiler Studio, Arduino, Putty

Programming Language: C

Description: Led development efforts for a cutting-edge monitoring system aimed at ensuring the optimal performance of a Commercial Grade RO Filter. The system continuously tracks crucial parameters including Total Dissolved Solids (TDS) levels, flow meter values and temperature of water inlet/outlet rates, wastage. Transmitting collected data to a server via MQTT protocol. Leveraged MSP432E401Y microcontroller, QuectelGSM/GPS module (BG95), and RTL8720DN microcontroller for seamless data transmission via both LTE and Wi-Fi networks.

Responsibilities:

- Spearheaded the implementation of AT commands for the Quectel (BG95) LTE module, ensuring efficient data transmission through MQTT protocol.
- Developed robust functionality for seamlessly switching between LTE and Wi-Fi modules, optimizing data transmission based on network availability.
- Implemented dynamic switching between Access Point (AP) and Station (STA) modes, enhancing system adaptability to varying network environments.

Title: Dash pod (BLE-Enabled Athlete performance analysis)

Role: Tester

Software & Tools: Segger Embedded Studio

Language: Embedded C.

Description: The project is used to facilitate athlete performance analysis through an innovative system incorporating radar and accelerometer technology. Powered by the nRF52833 main MCU and utilizing Bluetooth Low Energy (BLE) for mobile app connectivity, the system enables seamless communication between the device and the user’s phone. Key functionalities include wave and tap detection utilizing the A111 radar sensor and LSM6DSR accelerometer-gyro sensor respectively. Additionally, the integration of a Buzzer and Addressable LEDs provides real-time feedback to users. Collaborating closely with the app development team.

Responsibilities:

- Implemented functionalities based on received commands, including wave and tap detection, utilizing embedded C programming in Segger Embedded Studio.
- Led the creation of a customized Hardware Abstraction Layer (HAL) integration file for the A111 radar sensor.

ADDITIONAL INFORMATION

Language Known:	English, Hindi
Hobbies:	Reading Book, Bicycle
Nationality:	Indian
Date Of Birth:	18/11/2001

DECLARATION

I hereby declare that the above-mentioned details are true to the best of my knowledge.

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