THUMU RAMAKRISHNA (1) Featured

Embedded Software Engineer seeking roles in Software Development, Application Programming, Project Management, System Analysis, Technical Architecture, System Programming, Requirement Gathering, Linux, Unix, GIT, C



Current Designation: Embedded Software Engineer Total Experience: 3 Year(s) 9 Month(s)

Current Company: VVDN Technologies Notice Period: 3 Months

Current Location: Chennai Highest Degree: B.Tech/B.E. [electronics and

communication engineering] Pref. Location: Bengaluru / Bangalore, Chennai, Hyderabad

Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Single/unmarried

Key Skills: Embedded Software Engineer, Software Developer, Software Development, Application Programming, Project Management, System Analysis, Technical Architecture, System Programming, Requirement Gathering, Linux, Unix, GIT, C

Verified: Phone Number | Email - id

Last Active: 12-Jan-21 Last Modified: 11-Jan-21

Functional Area: IT Software - Application Programming /

Summary

Total Experience - 3.9+ years.

Good Knowledge in C Programming.

Good Knowledge in Linux Device Drivers.

Good Knowledge in Linux system programming.

Good Knowledge in Microcontroller programming and RTOS.

Good knowledge in Bluetooth Low Energy(BLE).

Involved in Software Design, development, debugging and bug-fixing

Possess excellent interpersonal, communicational and organizational skills.

Work Experience

VVDN Technologies as Embedded Software Engineer

Mar 2017 to Till Date

Project Description: The TAB REMOTE will allow the user to control the Water Heater using an app. The given control information by the user will be transmitted to the WL CHGR via BLE. The WL CHGR will be having the Wireless Power transmitter and the system to connect the boiler. The control signals will be transmitted through wires to the Water Heater to increase (or) decrease the temperature. When the tablet will be placed inside the charger, battery in the tablet will be charged wirelessly.

Architecture: ARM CORTEX M4 (nRF52832 ble controller)

Responsibilities:

Design/Development of BLE communication protocol and device configuration from

MobileApplication.

Design/Development of protocol for data exchange between processor and nordic controller through

UART interface.

Wireless charger status detection using I2C interface and updating the led states

Bug Fixing

Technologies: BLE Protocols: I2C,UART

2.Project Title: Video casting device (Role: Developer)

Universal casting device to enable multiple users to simultaneously stream any content from almost any

wireless device to one or two displays

Architecture: ARM CORTEX M4 (MSP430 controller)

IDE: IAR Responsibilities:

Control the HDMI multiplexer chip connected to MSP430 microcontroller using I2C interface

Debugging the boards during production

Protocols: I2C

3. Project Title: Electronic lock for rental properties

Guests can reserve the rental properties via mobile application or web. Once the reservation is received, a PC/Mobile device will generate time-sensitive access code based on the date of entry, length of stay. The generated access code can be sent to guests by email. Guests can enter their codes into the Lock keypad for check-in and check-out only at a pre-specified time.

Architecture: ARM CORTEX M3 (CC2640 ble controller)

IDE: IAR Responsibilities:

Written a Gatt attribute for receiving the various access code from the mobile and verifying the access code and sending back the status(PASS/FAIL) back to the mobile application.s

Bug Fixing in the algorithm for validating the access code duration.

Education

UG: B.Tech/B.E. (electronics and communication engineering) from VR Siddharth Engineering College, Vijayawada in 2015

Other Qualifications/Certifications/Programs:

Diploma

IT Skills

Skill Name	Version Last Used Experience
С	
SPI, UART,I2C,BLE	
Make ,IAR,STM32CUBEMX,YOCTO	
GDB,VALGRIND	
Subversion, GIT	
Unix/Linux	

Affirmative Action

Category: General

Job Type: Permanent

Physically Challenged: No

Employment Status: Full time

Work Authorization