Embedded Firmware Engineer

About

Dedicated individual with thorough hands-on experience in embedded systems, networking and system design. I have predominantly focused on providing highly valuable and practical designs on projects that aims on high-quality designs with reduced margin of errors.

Career Summary

Feb 2022-Present

Expert Software Engineer, APTIV

- Development of firmware QNX-based modules.
- Designing and development of firmware for smart camera solutions for automotive devices.

Dec 2019 - Dec 2022

Senior Engineer, Larsen and Toubro

- Development of firmware for Phillips smart lightning solutions.
- Designing and development of firmware for smart lighting control systems and integration of third part system modules.

R&D Embedded Software Developer, INTEREL

2018-2019

- Responsible for WiFi driver and handling the network driver of the system.
- Designed firmware from scratch Espressif-based WiFi modules.
- Quality assurance and testing the product design.
- Guest room automation device network up-link drivers.
- Developed robust state machine for WiFi firmware to handle both Data plane and configuration plane.

Software Engineer, embedUR Systems

2016-2018

- Worked on wireless networking, 802.11, 802.1X security, EAP authentication mechanism Cisco Wireless controllers and access points.
- Worked on RDK-B based residential cable modems.
- Created BSP driver bring up for openwrt based home gateway solutions.
- Responsible for GPIO control pins and WPS hardware module for IPQ806x based residential gateway boards.

Education

Bachelor of Electrical and Electronics Engineering / SMK Fomra Inst. of Technology

2011-2015

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Skills

Tech: C, Embedded C, Python, Kernel, RTOS, WiFi, Modbus, DALI, UART, I2C, System Design, Product Development