

Nirbhay Chauhan

Embedded System Application Developer

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Summary

My professional journey as the embedded software engineer includes understanding of complete embedded software development lifecycle. Which covers Embedded C programming, Software design, analysis, debugging and project monitoring using agile methodology. Working on Tiny yet powerful electronic SoCs like esp32, nuc472 (ARM Cortex-M4, 32-bit controller). I contributed to creating scalable and optimized software system applications. Product based project experience includes IoT product development with RTOS in embedded C environment with the skills set mentioned in the following sections. Having worked with a team of 3-8 members & Prefers to be more communicative and collaborative to find the common ground in differences and to find fresh alternatives to solve the problem at hand. Have a look at this document to get to know me more as the technical individual.

Work experience

Embedded Systems Application
Developer

August 2018 - at
Present

[System Level Solutions\(India\) Pvt. Ltd.](#)

Projects: Application development on RTOS and Linux gateways with provided SDK

- RTOS and Linux gateways are one of the intelligent Hardware parts of 'Nebulae framework' which possesses the capabilities of providing cloud connectivity over Wifi, Ethernet, GSM (PPPoS mode). Supported SOC's - esp32, nuc472.
- SDK, On top of the gateways, provides the flexibility of selecting supported library packages and to start application development on Go.

Development Expertise:

- Experience to write readable optimized code with MISRA compliance, using the provided SDK with multithreaded programming.
- Hands-on UART, I2C, RS485 interfaces, RF interfaces.
- Dealt with IoT protocol like MQTT fundamentals.
- Driven by my interest I have digested fundamentals of CPP and Python.

Work Flow & Tools

Insight into Process wise participation of mine during Application development.

- Collaborated architecture design phase.
- Design documentation
 - Tools for charts, graph preparation.
- Version controlling of developed code
 - Hands-on GIT Bash as well as Tortoise GIT (GUI based GIT).
- Agile workflow
 - Sprint planning, Sprint retrospecting & Sprint Closing. SCRUM.
 - Tuleap - application life-cycle management system. TAG
 - Release (Test/Public Release).

Skills

Embedded C

Communication Protocols

SPI, I2C, UART, RS485, MQTT, etc.

Real Time OS

Debugging

gdb

Workflow & Version Control

git tortoise & command line

C++, Python

Basics

Interests

Work on Latest Technologies like
Python in IOT

Strengths

- Open to take suggestions.
- Need minimum supervision.
- Interpersonal skills.

Education

Embedded Systems Training
[Vector India](#)

Jan 2018 - Aug 2018

Bachelor in Engineering (Electronics & Communication)
[Gujarat Technological University](#)
Secured 7.4 CGPA

2012 - 2016

HSC (Science Stream)
Kendriya Vidyalaya Air force Station Vadsar.
Secured 76 %

Leisure pursuit

Reading Books, Random road trips
Cycling and workout.