**Nitin Desai**

**Embedded Engineer**

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Embedded system engineer with an expertise in embedded software development using Embedded C/c ++.

passionate about coding, learning new technologies’ and agile software development practice and quality improvement through the effective use of knowledge, information and communication. Having an overall experience of 3.5+ years.

**Work Profile**

* An energetic professional working with **ITC Infotech** as an embedded software developer Since **Aug-2016.**
* Ensures delivery of high quality product using programming language on Windows/Linux platform.
* More than 3.5+year experience in Embedded application development and Designing.
* Good working knowledge of SVN and GIT for code management and revision control.
* Rapid adaption to new tool and technologies’.
* Working Experience in practicing agile software development methodologies.
* Working as Agile scrum master.
* Good working experience in Cross-compilation and building and compiling the Linux Kernel.
* Working experience on Linux, batch scripting and shell scripting.
* Working Experience in Software and Firmware development in embedded C language.

**Technical Skill Set**

* **Languages:** C, C++, Embedded C, Batch Script, LUA.
* **IDE Tools**: Visual Studio, Eclipse, Integrity, WinAVR, VM, Windows InstallShield.
* **Operating Systems**: Windows, Linux.
* **Communication Protocols:** UART, I2C, SPI.
* **Code Management:** SVN, Git-Lab.

**Project summary**

1. **IoT Connectivity for Keysight Technologies**: Providing connectivity to the various Keysight instruments. An Edge Micro Server(EMS) application will run on this instruments and send some critical data to the server i.e. Hyrax (A platform derived from Thingworx PTC). Data will be fetched at some predefined rate. We also have File Transfer feature to directly dump configuration file at run time from platform to EMS device, or to fetch log files the other way. This application will work on Multiple OS like Windows, Linux, ARM Linux and WinCE.

**Organization**: ITC Infotech India limited

**Technologies:** Embedded C/C ++, cross-compilation, scripting.

**Tools**: Visual Studio, VM, install Shield.

1. **CDAC Project- Timely Water Distribution to Plants:** Implement software for an embedded board which interact with Sensor, read, manage and analysis data and perform the control action. This project is based on AVR microcontroller. In this project we supply water to plants at a regular time interval without the involvement of human. This records &displays on LCD how much water has been passed. This will be very helpful to farmers as there is no constant supervision required.

**Technologies:** Embedded C/c ++, scripting.

**Tools**: Visual Studio.

**Roles and Responsibility**

* Architect and design application models and flow
* Working as Agile scrum master.
* Implemented the solution in Linux ARM platform for PLUM, which included installing Tool chain and Cross Compilation.
* Coding for IPC implementation between multiple thread, which included message queue implementation, interrupt handling.
* Implementing Socket biased helper application for sensing event on system send data to EMS application.
* Implementing Python Selenium script for test automation for IoT server application.
* Bug fixing and maintenance of the product
* Coding, testing, debugging, implementation and integration.

**Educational profile**

* PG-Diploma (Embedded system design) from CDAC-Knowledge Park Bangalore, 2016.
* BE (ENTC) from D. y. Patil college of engineering, Pune, At University of Pune,2015.
* Diploma (ENTC) from MSBTE, 2012.

**Personal Details**

* Father name : Maruti Desai
* Mother Name : Surekha Desai
* Hobbies : Coding, Reading books, Travelling.
* Languages : English, Hindi, Marathi.

**Declaration**

I consider myself familiar with Embedded engineering aspects. I am also confident of my ability to work in a team.

I hereby declare that the information furnished above I true to the best of my knowledge.

**Thank You**

**Nitin Desai**

**Date:**

**Place:**