Navdeep Dhillon Puri

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Technical Skills

●C# / C / C++ / Ada / HTML / CSS / Javascript ●ASP.NET MVC ●REST Using Web API ●Dapper ●Bootstrap Framework ●Test Driven Development / BOSS (Batch Oriented System Simulator)	●Visual Studio 2015/ NUnit / ITEG (Integrated Test Environment), CCS ●ADO.Net / Entity Framework ●SQL Server 2014 ●SQL Reporting Services ●Object Oriented Programming ●Data / Class Modeling ●Common Architecture Patterns	●Version Control: Git / Rational Clear-Case / Rational Clear-Quest / PVCS ●Debugging Techniques ●Requirements Tools: DOORS, Quicksilver(Interleaf) ●Operating Systems: DEOS (Safety critical RTOS)

Professional Experience

Software Engineer at CTC Software, Bloomington,MN - September 2017 –May 2019

o Responsible for end to end development including requirements analysis, technical feasibility, estimation, design, coding and testing.
o Developed Civil 3D and Autocad productivity enhancing tools in C# using Autodesk Civil 3D APIs. Implemented tools using Winforms Forms, Spreadsheet Gear and Infragistics UI Controls.
o Implemented template management tools which involved export, import and syncing Civil 3D styles and objects settings from an Excel spreadsheet. Implemented tool to design entire Pipe Network runs with a spreadsheet editor inside Civil3D.

C# .NET Apprentice at The Software Guild, Minneapolis,MN - May 2017 – July 2017

The Software Guild is an intensive, fast-paced apprenticeship program that produces .NET / C# full-stack software developers.

o Developed an application for a flooring company that enabled users to add, delete, & edit clients and orders using C# and the .NET framework.
o Implemented Battleship game using C# that runs in console. Battleship uses objects, multiple classes , enums and generic collections. Performed unit testing for this application using Nunit.
o Implemented browser-based Vending Machine user interface for an existing web service using HTML, CSS, JavaScript and jquery. Used Postman to explore the supplied Vending Machine REST API.

Software Engineer at Honeywell Technology Solutions, Bangalore India - July 2011 –Sep 2013

Product: Enhanced Ground Proximity Warning System (EGPWS)

o Created Software Requirements document from Customer Specifications for Enhanced Ground Proximity Warning System (EGPWS) EM57 platform refresh, using DOORs and Honeywell proprietary DXL scripts.

- Implemented Software Requirements in C++ on DEOS safety critical RTOS using Honeywell proprietary Development framework.
- Moderated and participated in peer reviews of software requirements, software code, and test scripts to meet the DO 178B standards.
- Configured, utilized, and analyzed output of LDRA tools for Structural Coverage / Static Code analysis.
- Debugged firmware issues using the JTAG tools, e.g. watchdog, Ethernet, etc.

Software Engineer at Honeywell Technology Solutions, Bangalore India - Dec-2006 –July 2011
Product: Flight Management System
Job Description: Worked as Senior Engineer in Airbus A3XX Flight Management System (FMS), Performance(PERF) team. PERF is a very large and complex functional area of FMS which is responsible for predicting performance parameters along the flight plan.
Job Responsibilities include:
- Developing software design requirements, design framework and code implementation (using ADA) based on the high level system requirements.
- Performing very elaborate system and software checkouts based on the software design and software requirements of various flight critical functionalities
- Troubleshooting and implementing corrections to the existing software for any non-compliance of the software or system behavior against the system requirements of various flight critical functionalities.
- Various trainings attended as part of PERF FMS team: Six Sigma Greenbelt; Engineering Process Training Aero SW; DO178B; Aero Systems Training

Software Engineer at Processor Systems India Pvt Ltd, Bangalore India - Nov-2004 – Dec-2006
Job Description: Responsible for design, development and testing activities of Texas Instruments "Open Multimedia Application Platform" (OMAP). OMAP processors are used to deliver low-power enhanced video imaging, audio, and graphics processing to support high-quality multimedia features. Involved in development of embedded software:
- IrDA (Infrared Data Association) driver for communication between two OMAP platforms.
- USB driver; UART driver; Serial PS/2 mouse and Keyboard driver interface; LCD Display
- Supporting existing drivers for the new Processor versions.
- Software multiplexer for general Purpose Input Output Pin multiplexing to enable different interfaces to the processor.

Education
- Bachelor of Technology (Computer Science and Engineering): 4 Years (June-1999 to May-2003) From Giani Zail College of Engineering and Technology, Bathinda, Punjab India affiliated to Punjab Technical University, with aggregate 71.93%
- 6 Months Advanced Diploma in Embedded Systems from Crane Varsity Bangalore India-2004.

Achievements
- Quarterly award for Best Mentor and Best Collaboration practices
- Spot awards for achievements nomination from project leads and peers.
- Recipient of Letter of Appreciation & Award from for FMS project.