Neeraj Desai

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EDUCATION

University of Maryland, Baltimore County   Graduated: August 2015
College of Engineering and Information Technology (ABET Accredited)
Bachelors of Science (**BS**), **Computer Engineering** (Communications/Signals Track)

PROFESSIONAL EXPERIENCE

Lockheed Martin   September 2015 – Present
Computer Engineer   *Space Systems Company*
- ❖Customizing and designing layer 2 protocol in QualNet/EXata using C language.
- ❖Developed a simulation model using QualNet/EXata with hardware-in-loop to model over 150 nodes.
- ❖Developed scenarios to evaluate OSPF routing protocols using EXata. Other tools used: Ostinato and Wireshark.

Release Engineer   *IS&GS*
- ❖Streamlined configuration and development processes from local development environment to federal enterprise servers, which increase efficiency by 75%.
- ❖Worked towards automating a continuous integration in Visual Studio to SharePoint Servers, which will allow developers to build and deploy solutions instantly to save time by 50%.
- ❖Ongoing maintenance of the processes and toolsets used to manage the software baseline, build, and release process.
- ❖Scripting in PowerShell and writing the deployment guide to deploy solutions in different SharePoint farms.
- ❖Configured the security of the application using SSL certificates and out of the box SharePoint security features.
- ❖Testing developmental web-based software written in ASP.NET and C# for the FAA and using JIRA to communicate with the development team and to report defects.

Verizon Enterprise Solutions - Federal Network Systems (FNS)   June 2013 – August 2013
Procurement   *Summer Internship*
- ❖Developed a system to automate procurement documents by coding macros in Excel to increase efficiency by 50%, thus creating more time to satisfy customers with better-quality customer service.
- ❖Worked with systems administration to create an efficient way to check for active directory user accounts, audit, and other troubleshoot related issues.
- ❖Presented with a team to co-workers on the benefits of using Microsoft SharePoint.

SYP Group, LLC   May 2011 – January 2012
Network Engineer   *IT Consultant Services*
- ❖Consulted with large projects to reach client's deadline.
- ❖Redesigned data network infrastructure and configured related hardware (network routers, hubs, firewalls, CAT-5 wiring, etc).
- ❖Diagnosed and resolved our client's servers and network related issues in their offices.

PROJECTS

Capstone Project: Luggage Tag Tracker   Fall 2014 – Spring 2015
- ❖Worked with a team of four to design and create a luggage tag tracker for bags, luggage, or briefcase.
- ❖Worked with an Arduino Uno microcontroller, Bluetooth (BLE 4.0), Wi-Fi, and GPS chip.
- ❖Together designed a mobile application for the tracker that retrieved the stored coordinates of the tracker from an encrypted server.
- ❖Wrote many technical documents (Team Status Reports, Systems Requirement Specification, and Statement of Work).

8086 Board Design Project   Spring 2014
- ❖Worked with a team of four to design and program an 8086 Microprocessor System with memory, timers and interrupts.
- ❖Designed a four-layer PCB layout for our 8086 Microprocessor using Cadence software.

Embedded Systems   Fall 2014
- ❖Programmed a version of the "Mastermind" game on the AVR Dragon Board and Butterfly.
- ❖Programmed a terminal-based program that allows a user to enter songs, along with a title, and play them back using the speaker on the Butterfly.

RELEVANT COURSEWORK

- ❖Signal/Systems Theory (FFT, DFT), Communication Laboratory, Digital Logic, Data Structures, System Design and Programming, Embedded Systems and C Programming, EM Waves and Transmission, RSA

COMPUTER SKILLS

- ❖Operating Systems: Linux, CentOS, RHEL, OS X, Windows, Windows Server 2012 R2
- ❖Programming languages: C, PowerShell, Assembly *(NASM, MIPS)*, Python, Verilog, and HTML
- ❖Software: Wireshark, Adobe Photoshop, Visual Studio, Cadence, PSPICE, MATLAB, SharePoint 2013 Server, and AutoCAD

ACTIVITIES AND ORGANIZATIONS

BAPS International Organization, Beltsville, MD   August 2010 - Present
Youth Volunteer   *Non-Profit Religious Organization*
- ❖Operating a custom 2D CNC Machine to cut precise shapes/designs out of foam. Creating vectors in ArtCam along with Adobe Illustrator and Rhino3d.
- ❖Present weekly to different age groups using PowerPoints and SmartBoards to delivery an exciting topic on Hinduism.
- ❖Currently volunteering in the construction of Akshardham in Robbinsville, New Jersey.