

Neeraj Desai

108 Ellingwood Lane, Frederick, MD 21702 • (240).566.2353 (c) • neerajdesai@outlook.com

EDUCATION

University of Maryland, Baltimore County

College of Engineering and Information Technology (ABET Accredited)

Bachelors of Science (BS), Computer Engineering (Communications/Signals Track)

Graduated: August 2015

PROFESSIONAL EXPERIENCE

Lockheed Martin

Computer Engineer

September 2015 – Present

Space Systems Company

- ❖ Customizing and designing layer 2 protocol in QualNet/EXata.
- ❖ 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 increased 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.
- ❖ Using 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, 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.