

PURPOSE

New graduate seeking full time employment in the fields of electrical engineering or computer science upon graduation in May 2011.

SELECTED WORK HISTORY – REFERENCES ON REQUEST**University Researcher**

The University of Tulsa

Part Time January 2008 – Present

Currently conducting research on ferroelectric memory devices. Previously worked on creating a domain aware statistical analysis system for SCADA networks and integrated Nessus into a Linux PAM.

Student Research Assistant

National Institute of Standards and Technology

Summer 2009

Collaborated with a research team to produce a uniform line width standard of less than 1nm uncertainty on a SiO substrate. Developed and worked on simulation and analysis software, production processes, and surface metrology.

Embedded Software Intern

FW Murphy

Summer 2008

Developed a custom software solution on a Muphy PV100 ARM7 device for analyzing J1939 (CANBUS) protocol data in the field.

SKILLS & ABILITIES**Extracurricular Design**

- Multiple embedded microcontroller projects including an RFID door lock system and LED cube
- Hydrogen fuel cell control system, mechanical design, and electrical integration
- Blueprint and electrical plans for an electromechanical birthday cake yard decoration

Technical (Samples by Request)

- Schematic capture and PCB design experience including board artwork and manufacture
- Microprocessor development on 8051, ARM, and HCS08 in the C language and native assembly
- Desktop and server software development in C, C# .NET Framework (versions 2 and 3), Java, Python, and PHP; MySQL and PostGIS database familiarity
- SCADA networks and ladder logic programming with Control Microsystems products
- FPGA development on Xilinx SPARTAN3E
- Class 100 clean room experience with nano-scale metrology using an AFM and SEM

Software

- **CAD** Altium Designer, SolidWorks, Vectorworks, and Cadence PSpice
- **Software Development** Microsoft Visual Studio, Eclipse, NetBeans, Git, SVN, and CVS
- **Server Administration** Windows Server 03/08, Ubuntu , Exchange 07, Asterisk, Apache, MySQL
- **Desktop OS** Windows XP/7, Ubuntu, and RedHat
- **Productivity** Microsoft Office, Adobe Creative Suite

EDUCATION**Double BS in Electrical Engineering & Computer Science with Math Minor**

Expected Graduation: May 2011, GPA: 3.5

The University of Tulsa, OK

Classes include: Classical Control, Power Systems, Electro-Optics, Electromagnetics, Electronics, Optical Networking, Solid State Electronics, Microelectronic Fabrication, Network Security, Computer Security, Differential Equations, and Linear Algebra

High School Graduate with IB Diploma

May 2007

Anglo-American School of Moscow, Moscow Russia – US Citizen on Expatriate Posting

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The University of Tulsa

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