

# ALI ZAIN AKHTAR

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## OBJECTIVE:

A full time position in the field of Electrical and Computer Engineering

## EDUCATION:

Worcester Polytechnic Institute (WPI), Worcester, MA

**Bachelor of Science in Electrical & Computer Engineering** - GPA 3.67/4.00, May 2015

## RELATED COURSEWORK:

Microelectronics Systems, Control Engineering, Continuous & Discrete Time Signal Analysis, Digital Circuit Design, Embedded Systems, Electrical Energy Conversion, Power Electronics, Wireless Networks, Object Oriented Design

## RELEVANT SKILLS:

**Software:** Matlab, Visual Studio, DOORS, Visio, Eclipse, Multisim, PSpice, Simulink, Microsoft Office

**Languages:** C#, C, Python, Java, Perl, HTML, CSS, JavaScript, SQL, .NET, Visual Basic (VBA), Verilog (VHDL)

## PROFESSIONAL EXPERIENCE:

**Engineering Intern** - NVIDIA, Santa Clara, CA, Jan - Mar 2015

- Created scripts in Perl and Python to automate the process of collecting Power values for Tegra chips

**Engineering Co-op** - General Electric (GE), Aviation Systems, Grand Rapids, MI, Jan - June 2014

- Worked in a team to prepare various aircraft plugin(s) for FAA review
- Wrote and fixed auto tests by implementing requirements from DOORS using C# and .NET framework
- Trained three new employees and gained exposure to project management

**Engineering Intern** - General Electric (GE), Energy Management, Oakbrook Terrace, IL, May - July 2013

- Used the IEEE 998-1996 standard to design a Substation Lightning Protection tool using VBA
- Saved GE 45% time for doing calculations by creating the Substation Lightning Protection tool
- Trained engineers to use a new quality review system to save different metrics for substation drawings

## OTHER EXPERIENCE:

**Library Student Assistant** - George Gordon Library, WPI, Aug 2012 - Present

**Tutor** - Electrical & Computer Engineering Dept., WPI, Oct 2013 - Present

## PROJECTS:

**The Safe Shower - Electrical Engineering Design**, WPI, Oct - Dec 2013

- Designed a waterproof temperature sensing device to detect the water temperature in home showers
- Programmed an Arduino Uno to display the temperature and control the alarm system for the device

**Harvard Affiliated Disaster Medicine Fellowship**, WPI, July - Oct 2013

- Designed a database for doctors to store medical records for orphanages in Haiti using VBA

**Ambulance Communication System Data Analysis - Interactive Qualifying Project**, WPI, Aug 2012 - Apr 2013

- Used control systems to create differential delay equations for reducing time response of ambulances
- Created a new database with Python to use it as a medical library for patients at a hospital

## LEADERSHIP ACTIVITIES:

**Vice-President** - International Students Council, WPI, Mar 2012 - Present

**Secretary** - Muslim Student Association, WPI, Mar 2012 - Dec 2013

## HONORS:

**Member** - IEEE Eta Kappa Nu (Electrical Engineering Honor Society), WPI, Nov 2012 - Present