GABE HARMS, E.I.T

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OBJECTIVE   To obtain a full-time position that allows me to provide computer engineering services to employers starting in summer 2015

ACADEMIC

Bachelor of Science in Computer Engineering
The Pennsylvania State University, University Park, PA
Major GPA: 3.01
Expected Graduation: May 2015

Certified Engineer-in-Training, Pennsylvania
Passed FE Electrical and Computer Engineering Exam Aug, 2014

CAREER

Videon Central Inc. – Hardware Engineering Co-op   01/2014 – Current
Worked 20 hrs/week during the spring and fall 2014 semesters and 40 hrs/week during the summer 2014
- Circuit Design and Analysis
  - Designed circuit schematics for the development of several projects
  - Applied components into a circuit using datasheets and analysis
  - Determined appropriate data paths based on the current design and block diagrams
- Testing
  - Performed various bring-up tasks on new boards such as: programming memory, validating system resources, checking voltage rails, soldering replacement components
  - Used multi-meters and oscilloscopes for debugging and verification

Northrop Grumman – Systems Engineering Co-op   05/2013 – 12/2013
Worked 20 hrs/week during the fall 2013 semester and 40 hrs/week during the summer 2013
- Hardware and Software Safety Analysis
  - Supplied Navy customer with hazard analysis on MQ-8C Fire Scout unmanned helicopter.
  - Ensured safety critical requirements were implemented properly in low level design
  - Generated formal documentation of analysis and recommendations
  - Provided Army with information of possible hazards resulting from their equipment

EXPERIENCE

Skills

Software Development	-	VS, NetBeans, Eclipse, GDB, SVN, VIM, Gedit, Modelsim
Hardware Development	-	Xilinx, Cadence, Altium, Labview, Quartus, SPICE, ABEL
Proficient Languages	-	C, C++, Java, Verilog, VHDL, Bash
Background Languages	-	XML, HTML, MIPS, Python, MySQL
Development Methodologies	-	Agile, Scrum

Projects

Designed a multi-threaded web server using socket programming in C
Created a phone charger powered by AA batteries
Made a wireless door lock using C++ on a microcontroller and other hardware
Began development on an autonomous robot
Fixed several PS3 and Xbox game consoles

Relevant Courses

Electrical Engineering:	*Computer Engineering:*	*Computer Science:*
Circuits and Devices	Digital Design	C++ Programming
Electronic Circuit Design	Computer Organization and Design	Systems Programming
Signals and Systems	Intro to Computer Architecture	Object Oriented w/ Java
VLSI Digital Integrated Circuits	Computer Networks	Operating Systems
Field Programmable Gate Arrays (FPGAs)	Digital System Design	Data Structures and Algorithms