George Herring

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EDUCATION:

Olin College of Engineering – Needham, MA — May, 2014
Candidate for Bachelors of Science and Engineering, GPA: 3.70
Major: Electrical and Computer Engineering
Received merit based $80,000 scholarship
Course work includes: Semiconductor Devices, Computer Architecture, Discrete Math, Signals and Systems, Electrical Prototyping, User-Oriented Collaborative Design, Analog and Digital Communications, Electricity and Magnetism, Software Design, Real World Measurements, Modeling and Simulation of the Physical World

Skyline High School – Idaho Falls, ID — June, 2010
Graduated Summa Cum Laude, GPA: 4.0

EXPERIENCE:

Stanford University – Stanford, CA — June-August 2013
KAOS Group with Lambertus Hesselink. Designed a Google App Engine web application with automation software for simulation of experiments online using experimental results. Also worked with the spatial light modulation systems for the production of patterned x-rays.

Zee Aero – Mountain View, CA — June-August 2012
Zee Aero is a personal electric aircraft company, for whom I designed, programmed and fabricated a small, energy efficient, wireless sensor board for rotating systems. It used a 2 Mbps Zigbee-like protocol and included an accelerometer, memory, and power management with support for eight sensors, four of which were attached to virtual Wheatstone Bridges.

Olin Teaching Assistant – Needham, MA — 2011-2013
Modeling and Control (Freshman circuits lab); Real World Measurements (Freshman measurements lab); Principles of Engineering (Electromechanical labs/projects); Assisted with designing labs, and was responsible for giving lectures, grading lab reports, holding office hours, and providing feedback and guidance during projects.

National Institute for Computational Sciences – Oak Ridge National Lab, TN — June-August 2011
Designed and programmed a modular regression-testing framework for the Kraken super computer (1.17 petaFLOPS) to be implemented in the future on multiple computers including Jaguar (2.33 petaFLOPS). The framework was programmed in Python and included modularity for changing computers, compilers, repositories, databases, and batch systems.

Idaho National Laboratory-Battelle Energy Alliance - Idaho Falls, ID — June-July 2010
Modified intranet database for issue reporting and management. Specifically the simplicity of the user interface and the qualitative display of issue data were modified.

Idaho State University Physics Department – Pocatello, ID — June-July 2009
Designed circuitry associated with photo-multiplier tubes, which detected neutrons and other spallation products. This was part of a project for detecting transuranic elements inside of cargo containers using electron accelerators.

TECHNICAL SKILLS:

Software Skills – Python, Bash, embedded C, Assembly, Verilog, Javascript
Hardware Skills – Analog and Digital circuit design, Spice, Eagle, SolidWorks, AutoDesk, PCB design and buildup
Algorithm Skills – Signal Processing, Element-based simulation, Matlab, Numpy