William Oursler

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Education

Massachusetts Institute of Technology *2011 - 2015*

Major: 6 (Electrical Engineering & Computer Science)

GPA (Unofficial): 4.0/5.0

Notable Classes (Taken or Currently Enrolled): 6.02 Digital Communication Systems, 6.004 Computation Structures, 6.002 Circuits & Electronics, 6.005 Elements of Software Construction, 6.042 Mathematics for Computer Science, 6.006 Introduction to Algorithms, 6.046 Algorithms II, 6.858 Computer Systems Security 18.03 Differential Equations, 18.06 Linear Algebra,

St. Mary's High School, Medford, OR *2007 - 2011*

GPA: 3.93/4.0; SAT: 2290

Experience

Undergraduate Researcher Locomotion Lab (CSAIL), Cambridge, MA *Fall 2011 - Summer 2012*
Implemented URDF support in Yobotics Simulation Construction Set (Java), learned various aspects of Control Design and Verification Theory.

Tech Consulting & Web Design Rogue Valley Dermatology, Medford, OR *Fall 2007 - Present*
Create and maintain a business webpage (rvderm.com), implemented a HIPPA compliant patient photo database, build and maintenance Office PCs and Network.

Volunteer Exhibit Interpreter ScienceWorks Museum, Ashland, OR *Fall 2007 - Spring 2011*
Assisted visitors with correct and safe use of exhibits, ensured exhibits remained functional, and assisted instructors with demos, etc. during week-long camps.

Cyber-Auto Challenge Battelle, Columbus, OH *Summer 2013*
Integrated teams of students, scientists, government personnel, and auto industry engineers that engage in a practicum-based series of challenges oriented towards testing the cyber-security of CAN networks.

Simmons Tech Member Simmons Hall, Cambridge, MA *Spring 2012 - Present*
Manage dorm servers and information. Develop numerous services for residents. See http://github.com/simmons-tech/.

Computer Skills

C++ Proficient with Visual Studio (5 years of high-school classes). Implemented a kerneled Hough Transform module and GLUT GUI for my 3D scanner project (see my website for details).

Java CSAIL UROP required work on the source of Yobotics Simulation Construction Set, written in Java. The class 6.005 is also taught in Java.

Python Familiar with tkinter, numpy, and matplotlib. Numerous Simmons Tech projects, personal projects, etc. See github.

Web Development Familiar with HTML5 Development, including the use of LESS, CoffeeScript, and Django. See http://simmons-dev.mit.edu/dashboard for a current project.

Git Have used git for numerous projects, see http://github.com/zomega.

LaTeX This resume is typeset in LaTeX. I also tend to TeX math and CS psets.

Linux Terminal / Bash Scripting Ubuntu Linux is my primary operating system, I help maintain our dorm server and the Linux VMs (Debian, Fedora, and Scientific Linux) running on it.