William Oursler

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Education

Massachusetts Institute of Technology *2011 - 2015*

Majors: 6 (Electrical Engineering & Computer Science) and 18 (Mathematics)

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, 8.022 Electricity & Magnetism, 18.03 Differential Equations, 18.06 Linear Algebra,

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

GPA: 3.93/4.0; SAT: 2290

Work Experience

Undergraduate Researcher Locomotion Lab (MIT CSAIL) *Fall 2011 - Summer 2012*
Cambridge, MA

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 *Fall 2007 - Present*
Medford, OR

Create and maintain a buisness webpage (rvderm.com), implemented a HIPPA compliant patient photo database, build and matinence Office PCs and Network.

Volunteer Exhibit Interpreter ScienceWorks Hands-On Museum *Fall 2007 - Spring 2011*
Ashland, OR

Assisted visitors with correct and safe use of exhibits, ensured exhibts remained functional, and assisted instructors with demos, etc. during week-long camps.

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 requires work on the source of Yobotics Simulation Construction Set, written in Java. Scored a 5 (the highest score possible) on the Java-based AP Computer Science A test.

Python Familiar with tkinter, numpy, and matplotlib. Numerous personal projects, 50+ Project Euler problems, etc.

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

Git Have used git for numerous projects, including MASLAB 2012, the Simmons Dashboard, my website, and other personal projects.

LATEX This resume is typeset in LATEX. I also tend to TEX math and CS Psets where effective.

Linux Terminal / Bash Scripting Ubuntu Linux is my primary operating system.

Honors and Awards

Student of the Year *2011 - St. Mary's -* Awarded to the senior who most exemplifies scholastic excellence.

Carl Friedrich Gauss Award for Mathematics *2011 - St. Mary's -* Award for outstanding problem solving and devotion to mathematics.

First place at the Oregon State Math Tournament *2011 - Department of Mathematics, Oregon State University*

Outstanding Teen Volunteer *2010 - ScienceWorks -* Award "in recognition of his outstanding accomplishments and contributions to ScienceWorks Hands-on Museum".