

# 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 kenneled 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>.

**L<sup>A</sup>T<sub>E</sub>X** This resume is typeset in L<sup>A</sup>T<sub>E</sub>X. I also tend to T<sub>E</sub>X 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 running on it.