Greg Edelston

Education

2011 – Present
Class of 2015

Franklin W. Olin College of Engineering, Needham, MA.
Candidate for Bachelor of Science in Engineering with a Concentration in Robotics. GPA: 3.5 / 4.0
Coursework includes: Foundations of Computer Science; Software Design; Robotics (I-III); Principles of Engineering; Signals and Systems; Discrete Math; Modeling and Control; Modeling and Simulation; Linearity; Dynamics; Mechanics; User-Oriented Collaborative Design; Negotiations; The Entrepreneurial Initiative; Public Speaking.
Received 4-year, half tuition merit scholarship.

2007 - 2011

Greenwich High School, Greenwich, CT.
High Honor Roll; National Honor Society. GPA: 4.29 / 4.0

Experience

Employment and Research

Summer 2013

Cognex Corporation, *Software Intern*, Natick, MA.
Developed a testing suite in C# to automate benchmark tests on machine vision hardware.

Summer 2012

Mathematics of Microfluidics, *Research Assistant*, Olin College.
Developed algorithms to determine multiple equilibria of an arbitrary microvascular network; answered previously unsolved questions in blood flow; programmed network flow simulations in Python and MATLAB.

Fall 2012

Course Assistant, *Software Design*, Olin College.
Taught the basics of programming in Python; held regular office hours; checked and assisted with homework; oversaw and advised student projects.

2010-2012

Improv and Sketch Comedy, *Camp Counselor*, Buck's Rock Camp, New Milford, CT.
Taught teenagers the fundamentals of comedy and performance; prepared them for weekly performances.

Course Projects

Spring 2013

Robotic Arm Portraying Human Appearances, Executed in LabVIEW, *Robotics II*, Olin College.
Programmed an ST Robotics R17 arm to create R.A.P.H.A.E.L., a robot which draws portraits, with the ability to add user-selected ornaments to the drawing. Presented robot at National Instruments NI Week Conference in Austin, TX in summer 2013.

Spring 2013

Product Design for Aerobatic Pilots: Vantage, *User-Oriented Collaborative Design*, Olin College.
Conceived and designed an integrated device which would provide aerobatic stunt pilots with instant in-flight feedback and record flights for later review. Worked closely with stunt pilots throughout design process.

Spring 2012

tanCS, *Software Design*, Olin College.
Created an integrated platform for collaborative code creation intended for teaching computer science. Co-authored paper about project, published in *21st Century Learning for 21st Century Skills* (Springer, 2012). Project was presented at European Conference on Technology Enhanced Learning in Saarbrücken, Germany in fall 2012.

Spring 2012

Color-changing Chameleon, *Real-World Measurement*, Olin College.
Designed and implemented the electrical and software systems for a toy that changes color to match the surface it's placed on.

Skills

Software: Python, LabVIEW (CLAD), C#, JavaScript, HTML, CSS, MATLAB, SolidWorks, LaTeX, Windows, Linux.

Machine shop: Band saws, drill press, sander, heat stake, hand tools.

Miscellaneous

Eagle Scout; cellist (classical and rock); puzzler; Midnight Mathematician; Wilderness First Aid instructor.

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