

William Dvorak

CONTACT	MB 288 Olin Way Needham, MA 02492	(631) 278-1877 william.dvorak@students.olin.edu
EDUCATION	Franklin W. Olin College of Engineering, Needham, MA GPA 3.53 Candidate, Bachelor of Science in Electrical and Computer Engineering May, 2010 <ul style="list-style-type: none">• Awarded four year full tuition merit scholarship. Smithtown High School, Smithtown, NY GPA 4.31 Honors Diploma June, 2006 <ul style="list-style-type: none">• SAT M/V: 800/770, SATII Math 2/Physics: 800/770.	
EXPERIENCE	Kiva Systems, Woburn, MA <i>Intern Software Engineer</i> June-September, 2009 <ul style="list-style-type: none">• Designed and optimized algorithm to fit company products into any number of possible bins. Task resembled version of the knapsack problem; first enumerated all the possible configurations of bins, then packed the boxes of product into bins as tightly as possible.• Created user interface in java swing to initialize parameters and launch the program. WebMynd, San Francisco, CA <i>Intern Software Engineer</i> July-August, 2008 <ul style="list-style-type: none">• Coded algorithm to determine ten most important websites on a certain domain, included frequency, recency, and time spent on each page.• Utilized a lightbox effect for presenting the algorithm with thumbnails of each site. ALSTOM Power, Sigma Energy Solutions, Huntington, NY <i>Intern Engineer</i> July-August, 2006 <ul style="list-style-type: none">• Created templates in Excel for efficiency calculations on existing power plants, aiding the Asset Optimization reporters.• Prepared cost estimates and rendered lighting schemes for clients. Olin Coursework <i>Senior Capstone Project in Engineering, Boston Engineering</i> September, 2009-present <ul style="list-style-type: none">• Software lead on team of seven seniors on year long project sponsored by Boston Engineering.• Designed and implemented obstacle avoidance and target tracking algorithm utilizing LabView for a biomimetic autonomous tuna fish. <i>Principles of Engineering</i> December, 2007 <ul style="list-style-type: none">• Created mechatronic player piano with four solenoids, DC motors, a large voltage divider (for position sensing), and a PIC microcontroller. <i>Modeling and Control: Engineering of Distributed Systems</i> April, 2007 <ul style="list-style-type: none">• Simulated human vocal faculties in MATLAB's Simulink, creating a voder that sings.• Designed and optimized a two stage coil gun (a transducer between electromagnetic and mechanical realms), firing the team's magnet the farthest of all members of our class year.	
SKILLS	Java, Python, MATLAB, LabView, JavaScript, PHP, MySQL, XHTML, CSS, VBA, Verilog, L ^A T _E X, some C++ and Ruby on Rails.	
LEADERSHIP AND INTERESTS	Led the Olin Conductorless Orchestra in Tchaikovsky's <i>Fatum</i> December, 2006 All-Eastern Symphonic Band, tuba March, 2005 Cross Country, Captain August-November, 2005 Philosophy, running, skiing, music, fire poi, rock climbing	