

William Dvorak

william.k.dvorak@gmail.com

deterministicprogramming.com

Education	Bachelor of Science in Electrical and Computer Engineering Franklin W. Olin College of Engineering , Needham, MA Awarded four year full tuition merit scholarship. G.P.A 3.54	2010
	Honors Diploma Smithtown High School , Smithtown, NY SAT M/V: 800/770, SATII Math 2/Physics: 800/770. G.P.A. 4.31	2006
Experience and Projects	Algorithm Developer, ATE Systems , Billerica, MA <ul style="list-style-type: none">• Built upon and generalized calibration and measurement algorithms for radio-frequency test and measurement.• Created graphical fitness calculator for reciprocity in thru measurements, and phase comparisons in open and short measurements.	2010-present
	Technical Consultant, Jacox-Hilton Producer Consulting , Ontario, CA <ul style="list-style-type: none">• Oversaw logic creation for minimizing premiums for life insurance policies, during renewal.• Utilized Python's web scraping library "Scrapy" to post requests and scrape results from a website that gives quotes on premiums based on age, health style, smoking status, etc.	2011-present
	Poker Enthusiast and Algorithm Specialist, Poker Bot , Arlington, MA <ul style="list-style-type: none">• Designed and implemented an online-poker playing robot. The base algorithm compared the pot odds to the probabilistic likelihood of winning the hand with the information available. Using a Monte Carlo simulation method, I guess the future community cards to determine my possibility of winning.• Machine learning is then used over time to feedback information on other players' behavior to make "my" playing more intelligent.	ongoing
	Intern Software Engineer, Kiva Systems , Woburn, MA. <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.	2009
	Intern Software Engineer, WebMynd , San Francisco, CA. <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.	2008
	Intern Engineer, ALSTOM Power , Huntington, NY <ul style="list-style-type: none">• Created templates in Excel for efficiency calculations on existing power plants, aiding the Asset Optimization reporters.	2006
Olin Coursework	Senior Capstone Project in Engineering, Boston Engineering <ul style="list-style-type: none">• Software lead on team of seven seniors on year long project sponsored by Boston Engineering.• Designed and implemented autonomy in simulation using my own neural network in LabVIEW for our biomimetic robotic tuna fish.	2009-2010
	Principles of Engineering <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.	2007
Skills	Python, Java, MATLAB, LabVIEW, C++, JavaScript, PHP, MySQL, XHTML, CSS, VBA, Verilog, etc.	
Leadership and Interests	<ul style="list-style-type: none">• Led the Olin Conductorless Orchestra in Tchaikovsky's Fatum• All-Eastern Symphonic Band, tuba• Cross Country, Captain• Philosophy, running, skiing, music, fire poi, rock climbing	