

Devon Walker

devonw@andrew.cmu.edu ◇ 717-304-2186 ◇ Pittsburgh, PA
devonwa.com ◇ linkedin.com/in/devonwalker

Education	Carnegie Mellon University M.S. in Chemical Engineering (GPA: 4.0/4.0) University of Pittsburgh B.S. in Chemical Engineering (GPA: 3.3/4.0) ◇ Minor in Computer Science	December 2016 April 2012
Research	Carnegie Mellon University Master's Thesis, Advisor: Prof. John Kitchin Working Title: A neural network empirical potential for graphene defect structures. ◇ Performed <i>ab initio</i> calculations using DFT with VASP on algorithmically generated graphene defect structures. ◇ Developed neural networks to use as potentials in MD simulations with the accuracy of DFT and computational cost similar to empirical potentials.	Pittsburgh, PA January 2015 – Present
Industry	EZSoft, Inc Automation Engineer ◇ Deployed to provide on-site support for the research and development group within a major pharmaceutical company. · Managed three projects for integrating new technologies into a prototype process. · Recorded experiment data into a SQL database and used statistical analysis to develop further experiments and deliver presentations to superiors for project funding. ◇ Developed the operator interface for a bakery with over twelve hundred I/O points spanning three synchronous Allen-Bradley PLCs. US Liner Company Research Engineer Internship ◇ Furthered product development by testing polymer materials using ASTM standards. Chemical Engr. Dept., University of Pittsburgh Process Control Engineer Internship ◇ Developed the LabView control systems for seven laboratory experiments used by all students taking the senior chemical engineering lab.	Malvern, PA October 2012 – July 2015 Cranberry Twp, PA January 2012 – May 2012 Pittsburgh, PA May 2011 – December 2011
Certificates	Fundamentals of Engineering Exam (EIT)	April 2012
Skills	Applications: SciPy, LAMMPS, VASP, Aspen Plus, Microsoft Office, Linux, Virtual Machines, Ethernet Networking, RSLogix, FactoryTalk View Programming languages: Python, Matlab, Simulink, LabView, SQL, C#, VBA, Java, PLC Ladder Logic, HTML, CSS, L ^A T _E X	
Affiliations	American Institute of Chemical Engineers Order of the Engineer	Member, 2010 – Present Member, 2012 – Present