Devon Walker

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Education

Carnegie Mellon University December 2016
Master of Science in Chemical Engineering (GPA: 4.0/4.0)

University of Pittsburgh April 2012
Bachelor of Science in Chemical Engineering (GPA: 3.3/4.0)
◇ Minor in Computer Science

Research

Carnegie Mellon University Pittsburgh, PA
Master's Thesis, Advisor: Prof. John Kitchin January 2015 – December 2016
Title: A neural network potential for nanoporous graphene.
◇ Performed *ab initio* molecular simulations on a stochastic sampling of nanopores in graphene in order to train a neural network potential suitable for dynamic simulations.
◇ Code for simulations and neural network training were written in Python and executed in parallel on a Linux-based distributed computing cluster.

Industry

EZSoft, Inc. Malvern, PA
Automation Engineer October 2012 – July 2015
◇ 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 Cranberry Twp, PA
Research Engineer Internship January 2012 – May 2012
◇ Furthered product development by testing polymer materials using ASTM standards.

Chemical Engr. Dept., University of Pittsburgh Pittsburgh, PA
Process Control Engineer Internship May 2011 – December 2011
◇ Developed the LabView control systems for seven laboratory experiments used by all students taking the senior chemical engineering lab.

Skills

Expertise: Mathematical Modeling and Simulation, Statistical Data Analysis, Object Oriented Programming, Machine Learning, Optimization, Unix/Linux Environments.

Software: COMSOL, ASPEN Plus, Microsoft Office, RSLogix, FactoryTalk View, SQL Server, SciPy, Git, Google Apps, Virtual Machines.

Programming languages: Proficient in C#, Python, Java, MATLAB, PLC Ladder Logic, LabView, HTML, CSS, LaTeX. Familiar with C++, SQL, Go, VBA.

Certificates

Fundamentals of Engineering Exam (EIT) April 2012