Devon Walker

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Experience	**Tesla, Inc.**	Sparks, NV
	Controls Engineer	May 2017 – Present

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

Chemical Engr. Dept., University of Pittsburgh — Pittsburgh, PA
Process Control Engineer Internship — May 2011 – December 2011

Education

Carnegie Mellon University — December 2016
Master of Science in Chemical Engineering

University of Pittsburgh — April 2012
Bachelor of Science in Chemical Engineering
⋄ 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.

Skills

Expertise: Process Control, Statistical Data Analysis, Process Optimization, Mathematical Modeling, Object Oriented Programming, Unix/Linux Environments.

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

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

Certificates

Fundamentals of Engineering Exam (EIT) — April 2012