

# Devon Walker

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Industry	<b>Tesla, Inc.</b>	Austin, TX, USA
	Staff Automation Controls Engineer	December 2019 – Present
	Senior Automation Controls Engineer	April 2018 – December 2019
	Automation Controls Engineer	May 2017 – April 2018
	<ul style="list-style-type: none"><li>♦ Created custom Tool Positioning System that uses a collection of disparate sensors to govern tool interlock conditions. Integrated into Shanghai Drive Unit (approx. 25 stations).</li><li>♦ Redesigned Siemens PLC MES transaction library to abstract changing backend data acquisition strategies from machine process implementations.</li><li>♦ Led a team of 9 controls engineers to deliver the first Tesla Paint Shop in Shanghai.</li></ul>	
	<b>EZSoft, Inc.</b>	Malvern, PA, USA
	Automation Controls Engineer	October 2012 – July 2015
	<ul style="list-style-type: none"><li>♦ Provided on-site support for the R&amp;D group at a major pharmaceutical company.<ul style="list-style-type: none"><li>· Wrote a custom C# communication interface and GUI to integrate lab test equipment into an Allen-Bradley control system.</li><li>· Recorded high-speed data into an SQL database and performed statistical analysis to inform future experiment plans.</li></ul></li></ul>	
	<b>US Liner Company</b>	Cranberry Twp, PA, USA
	Research Engineer Internship	January 2012 – May 2012
	<b>Chemical Engr. Dept., University of Pittsburgh</b>	Pittsburgh, PA, USA
	Process Control Engineer Internship	May 2011 – December 2011
	<ul style="list-style-type: none"><li>♦ Rewrote LabView control systems for 6 chemical engineering lab experiments.</li></ul>	
	<b>Carnegie Mellon University</b>	Pittsburgh, PA, USA
	Master's Thesis, Advisor: Prof. John Kitchin	January 2015 – December 2016
Research	Title: A neural network potential for nanoporous graphene.	
	<ul style="list-style-type: none"><li>♦ Performed molecular simulations on nanoporous graphene to train a feedforward neural network capable of replicating a Density Functional Theory exchange potential.</li></ul>	
	<b>Carnegie Mellon University</b>	December 2016
	Master of Science in Chemical Engineering. 4.0/4.0.	
	<b>University of Pittsburgh</b>	April 2012
Education	Bachelor of Science in Chemical Engineering. Minor in Computer Science. 3.3/4.0.	
Skills	<b>Expertise:</b> Proficient in Object Oriented Programming, Networking and Communication of Factory Controls Systems, Process Modeling and Optimization. Familiar with Machine Learning, Front-end Browser Development.	
	<b>Software:</b> Proficient in UNIX, Git, MySQL, Ansible, Jenkins, JIRA, Confluence, Ignition, Siemens TIA, Rockwell Studio. Familiar with Kubernetes, Docker, Kafka, React.	
	<b>Programming Languages:</b> Proficient in Python, Golang, SQL, C#, Java, MATLAB, LabView, HTML, CSS, L <sup>A</sup> T <sub>E</sub> X. Familiar with JavaScript, C++, VBA.	