JOEL RUHLAND

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(519) - 755-0605

MECHATRONICS ENGINEERING

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Engineering student seeking hardware-oriented software development experience. Interests in automation, cybersecurity, and autonomous systems.

Technical Skills

C/C++	Python	Linux
NodeJS	REST APIs	Bash Scripting
git	Jenkins	AutoCad

Projects

Random Number Generator

Solo Project

Image processing, motion detection, and a C# desktop application

ATM Prototype

Software Lead

Sensor integration, key card and pin access, and user interface design

Self-Guided Toy Car

Software Lead

Self-direction algorithms and sensor integration

Experience

Interset

Software Developer in Test

January - April 2016

Designed and implimented data warehousing for agile story data, and static analysis results Produced a reporting stack on top of the warehousing, including a REST API, and web dashboard ETL framework design, including implmentation of ETL for JIRA and Sonarqube

BAR Lines Consulting

Junior Consulting

June - August 2015

Independently produced Architectural, Mechanical, and Electrical plan drawings used in permit applications

Collaborated with Architect to ensure all plans were in accordance with state building codes Prepared design options and produced working drawings to discuss with clients

Shockbyte

Systems Administrator

May 2013 - March 2014

Deployed, configured and maintained over a dozen linux servers located across the continental US, maintaining >99% uptime for game server clients

Provided technical support (T2/T3) for game server, DNS, control panel, or backend issues

Education

University of Waterloo - Waterloo, Ontario

Candidate for Bachelor of Applied Science, Mechatronics Engineering -3.86 GPA