

JOEL RUHLAND

MECHATRONICS ENGINEERING

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(519) - 755-0605

Profile

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

ATM Prototype

Self-Guided Toy Car

Solo Project

Software Lead

Software Lead

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

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

Self-direction algorithms and sensor integration

Experience

Interaset

January - April 2016

Software Developer in Test

Designed and implemented 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 implementation of ETL for JIRA and Sonarqube

BAR Lines Consulting

June - August 2015

Junior Consulting

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

May 2013 - March 2014

Systems Administrator

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**