
JOEL RUHLAND

MECHATRONICS ENGINEERING

joel.ruhland@uwaterloo.ca
(519) - 755-0605

Profile

Engineering student seeking hardware-oriented development experience.
Interests in information security and autonomous systems. American Citizen.

Technical Skills

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

Projects

AES Encryption Library Solo Project C++ encryption interface design and low-level memory management	Random Number Generator Solo Project Image processing, motion detection, and a C# desktop application	Face-Tracking Webcam Mount Solo Project - In Progress Electrical and hardware design, embeded C, and vision processing software
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Experience

Interaset January - April 2016
Software Developer in Test

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 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**

