

Jodi Lee

Systems Design Engineering | jodi.lee@uwaterloo.ca | 647 781 7351

SKILLS

Technical

- Strong knowledge in MS Office/VBA, Solidworks, AutoCAD, Python, C++, Java, RegEx, Arduino
- Eager to learn new skills, programming languages and databases; self-taught soldering, Python, JavaScript and DXL

Strengths

- Leadership and team working proficiency through proposing solutions to internal stakeholders
- Organizational and prioritization skills learned from balancing multiple long term and short term projects in a fast paced manufacturing environment
- Excellent written and oral communication skills developed through interacting with multiple groups within an organization (i.e. production workers, engineers, health and safety)
- Enhanced attention to detail from previous work assignments where accuracy is crucial (e.g. porting PDF and hand drawn diagrams to Visio)

EXPERIENCE

Raven Telemetry

ENGINEERING AND MANUFACTURING

May 2016 – Present | Ottawa, ON

- Designed process and workspace improvements to streamline manufacturing operations
- Troubleshooted various hardware and software issues on data collection devices

Toyota Motor Manufacturing Canada

MANUFACTURING ENGINEERING

Sept 2015 – Dec 2015 | Cambridge, ON

- Optimized assembly line process by removing bottlenecks found through critical observation, reducing cycle time from 134 seconds to 115 seconds
- Applied and implemented Lean Manufacturing/Toyota Production System principles to study process optimization such as 5S, Kaizen/Continuous Improvement, and 5-Why's Root Cause Analysis
- Updated equipment layouts and documentation to reflect changes due to new model through on-site review and AutoCAD drawings of existing equipment

Thales Transportation Solutions

SYSTEMS DESIGN INTERN

Jan 2015 – Apr 2015 | Toronto, ON

- Automated repetitive documentation tasks using DXL scripting and RegEx, saving up to 5 hours weekly
- Analyzed data from train simulations and visualized results using MS Visio

PROJECTS

ARTISTANALYZER - IN PROGRESS

- Extracts song characteristics (e.g. bpm, pitch) and analyzes the data to determine the mood of the song
- Designing hardware interface using microcontrollers and LED lights to visually reflect data collected

QLOCKQLONE - COMPLETED

July 2015 – Aug 2015

- Constructed a high fidelity prototype using both hardware and software components to mimic a "word clock"
- Designed and assembled a complex circuit using a variety of ICs (i.e. multiplexors, shift registers, flipflops) and LEDs
- Programmed the logic for sending triggers, clearing memory and setting up the initial state

EDUCATION

UNIVERSITY OF WATERLOO

BASC IN SYSTEMS DESIGN ENGINEERING

Sept 2014-Present | Waterloo, ON

Courses of Interest: Digital Systems (Circuits and Computer Hardware), Data Structures and Algorithms, Introduction to Design (Prototyping), Graphics (Solid Works, Drafting)

INTERESTS

- A Capella
 - Member of UW A Capella Club for 4 terms, Alto Section Leader and Choreography Committee for 2 terms
 - Performs at End Of Term concert and gigs in the KW Region (e.g. Summer Lights Festival, St Jacobs Market)