Serena Pang

B. ASc., Management Engineering
UNIVERSITY OF WATERLOO *2020-2025*

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Activities & Societies: Entrepreneurship Soc. Community Engagement, Engineering Soc. W22 Outreach Commissioner, Waterloo Engineering Orientation Social Media Director, TOHacks Marketing Director, UWaterloo Engineering Ambassador

TECHNICAL SKILLS

Languages
- Java
- Python
- HTML
- CSS
- SQL
- VBA
- PowerQuery
- R Markdown
- Oracle's Hyperion® SQR® Production Reporting language

Tools+
- Figma
- Voiceflow
- PostgreSQL
- Adobe Illustrator/InDesign

Mechanical Skills
- AutoCAD
- Automotive Manufacturing
- Industrial Design
- Root-Cause Analysis

Product Development Cycle
- Supply Chain Management
- Toyota Production System
- Database Development
- Final Assembly

Data
- Data mining
- Dashboarding
- Wireframing

RELEVANT COURSES
- Algorithms and Data Structures
- Materials Sciences & Engineering
- Work Design & Facilities Planning

INTERESTS
- Driving manual transmission
- Making and exploring new music
- Vintage clothing collector and reseller
- Guest writer for SociallyInfused Media Ltd.

Work Experience

TOYOTA MOTOR MANUFACTURING CANADA   Jan 2022–Apr 2022
Production Control Analyst, Final Vehicle Logistics (Systems)

- Enhanced Finished Vehicle Monitoring System **redesign for Lexus NX** transformation to facilitate **100% capacity** of production and rail operations
- Developed PowerBI **visualization tool for delayed vehicles** between the QC and Sales Line lifter to **reduce offline inventory without locations by 2%**
- **Internal app development and launch** (Drive Audit, Safety Walk, Rollers, Drive Training) to digitize and perform automated data analytics on audits
- Introduced Vehicle **Yard Map Visualization** System to provide live location services using **IBM Db2** queries for **projected savings of ~$90,000+**
- **Led workstreams** to introduce and develop a Toyota Motor Sales PowerBI **report on post-production defects** for vehicle distribution center disclosure
- **Configured rail & truck scanners** to provide vehicle information for loading

TOYOTA MOTOR MANUFACTURING CANADA   May 2021–Aug 2021
Production Control Analyst, Materials Ordering (MFG Systems)

- Streamlined an early warning tracking system for Suspension and Cambridge Plastics progressive/planned unload to monitor daily build ahead conditions for a **projected cost savings of $434,000** in unexpected down time and **$1,060** in analyst time savings due to Dynamig subassembly
- Process augmentation of an 8000+ team member vaccination clinic with local health units for a **82% vaccination rate** and **91.2% clinic attendance** rate through time studies and throughput design
- Reconstructed part/supplier dump files using SQL queries (**PostgreSQL**) to provide data for a system switch to a web-based materials systems platform
- Project manager for the the launch and development of an **expedite tracking andon** to South Assembly to **reduce lost shipments by 88%**

ROYAL CANADIAN LEGION – BRANCH 375   June 2020–Aug 2020
Systems Support

- Reconstructed the Canadian Virtual War Memorial and the Commonwealth War Graves Commission for **9% of local veterans** through **archive research**
- **Analyzed traffic** and maintained website page/domain on WordPress

ROYAL CANADIAN LEGION – BRANCH 375   June 2019–Aug 2019
Systems and Accounting

- Automated accounting process (Excel VBA) to increase time savings by 71%
- Found **200+ unrecognized veterans** in Richmond Hill (1812-Present)
- Designed Remembrance Day banners for the City of Richmond Hill

Projects

- **Courage** is a prototype shopping app to connect communities with local businesses on a unified platform for a sustainable online retail experience
- **Cooky** is a HackTheNorth Voiceflow-based app that syncs with Amazon's Alexa to create an interactive recipe-reading software for instructional aid
- **FridgeSpace** is a **MLH feature** from TOHacks built using **Courier** and **React-Native** that identifies the dietary restrictions and preferences of foods through scanning photos of ingredients lists using Google Cloud APIs
- As the **Outreach Commissioner** for the **Waterloo Engineering Society**, I lead a team of 6 to host charitable initiatives and events to encourage school spirit