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

Tools+
- Figma
- Voiceflow
- PostgreSQL

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

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

Data
- Data mining
- Data analytics
- IBM AS/400

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

INTERESTS
- Driving manual transmission (stick)
- 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)

- FVL Monitoring System and location **scanner redesign for Lexus NX (922B)** transformation (pilot and manufacturing launch in North Sales Line)
- PowerBI **visualization tool for delayed vehicles** (offline inventory) between IO8 and IO9 (Quality Control and North Sales Line Lifter)
- Drive Audit, Safety Walk, TL Checks, Drive Training **internal app development and launch** to digitize and perform automated data analytics on audits
- Vehicle **Yard Map Visualization** System (RAV4, Lexus RX, Lexus NX)
- Toyota Motor Sales Product Quality and Service Support Defect Query and Post Production Options PowerBI Report for Vehicle Distribution Centers
- PTAG Truck and Rail carrier code update on **IBM AS/400 database**

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

- Created 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 **$1060** in analyst time savings due to Dyna-Mig subassembly
- Organized an 8000+ team member vaccination clinic with SouthWestern & Waterloo Health for a **82% vaccination rate** and **91.2% clinic attendance** rate
- 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 in coordination with IS of an **expedite tracking andon** to South Assembly & yokoten hand-off (EOT)

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

- Reconstructed and maintained the Canadian Virtual War Memorial and the Commonwealth War Graves Commission for **9% of known 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

- Digitized and streamlined the accounting process and maintained inventory through **automated Excel** spreadsheet
- Analyzed and improved database systems on Microsoft products
- 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 safe, inexpensive, 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 in the kitchen
- **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