

Yaowen Mei

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EDUCATION

- University of Guelph, Guelph, ON.** May 2021 – Present
- Master of Engineering in Computer Engineering (expected May 2023), **GPA 92.75/100**
 - Core Courses: Software Design and Architecture, Mobile Devices App Development, Soft Computing
- University of Waterloo, Waterloo, ON.** Sept. 2012 – Sept. 2016
- Master of Science in Physics, GPA 86.25/100
 - Honor Bachelor of Science in Physics GPA 83.71/100
- Dalian University of Technology, China.** Sept. 2010 – July 2012
- Bachelor of Engineering in Electronic Science and Technology
 - Core Courses: Technology and Application of Network, Microcomputer Principles and Applications, The Basic of Computer Hardware, C Language Programming, Introduction to Computer Science

RELEVANT SKILLS

- **Tools:** Python (Pandas, Matplotlib, Selenium), Java (Swing, Android Studio, Gradle), JavaScript, HTML, SQL, Excel VBA, Windows Batch, R, MATLAB, Mathematica, LabView
- **Certification:** Certified Quality Engineer from American Society of Quality, **Intermediate Java Programming Certificate from Conestoga College**, Certified LabView Associate Developer, Class G driver's license
- **Communication:** Complete fluency in both **English** and **Chinese (Mandarin)**

PROJECTS

[Android UWaterloo Campus Tour Application: WatsLoo](#)

- An android map application used the Google Map API and Firebase database for students to share their unique stories related to different spots/buildings on campus
- Repository, pip & filter architecture styles, decorator and strategy design patterns were applied in this application.
- **The best final demo mobile app of the Summer 2021 CS646 class at UWaterloo**

[Android Machine Learning Application: OneScan](#)

- A mobile phone application can identify different analytical chemistry equipment with back camera, and provide the operating manual, historical data, and calibration status to the chemistry Lab technician.
- Tensorflow Lite machine learning model was trained for object identification, Firebase database was used to store the data associated with each of the equipment
- **The best mobile app of the Summer 2021 ENGG6400 class at U of Guelph**

[Python Data Processing Application: Awesome Gear Pro](#)

- A Windows data processing software that collects, process, and evaluate the final products' inspection result for a gear manufacturing plant.
- Pandas and Numpy were used for data processing, Windows Batch Scripts were used for printing reports for quality inspectors.
- This application is helping Stackpole International Ltd. supplying better quality gears to GM and Ford and is **saving the company more than \$15,000 yearly from purchasing commercial software license.**

[Personal Website](#)

- A personal website using HTML, CSS, JavaScript, jQuery, PHP, Bootstrap, and SQL

EXPERIENCE

Stackpole International Powder Metal Ltd, Ancaster, Canada

- Process Quality Specialist April 2019 – May 2021
- Wrote Coordinate Measurement Machine (CMM) programs to match the customer drawings
 - Maintained a LAN for 8 gauges, trouble shooting for packet loss and communication failure.
 - Wrote Windows Batch scripts to [monitor inspection status](#) and [archive inspection results](#)

Eston Manufacturing-Linamar, Guelph, Canada

- Quality Technician/CMM Programmer Feb. 2017 – Feb. 2019
CNN Machine Operator Oct. 2016 – Feb. 2017
- Wrote Windows PowerShell Scripts to automatically [segregate](#) and [print inspection reports](#)
 - Made programs for Computer Numerical Control, Allen Bradley Robots, CMM and automatic gauge.

ACHIEVEMENTS

- The Best Employee of the Month**, Linamar, Eston Manufacturing, Aug. 2017
International Master Student Award, University of Waterloo Sept. 2014 – Sept. 2016
Name on Dean's Honor List, University of Waterloo April 2014
Marie Curie Award, University of Waterloo April 2014