Eric Peng

ericpeng.peng@mail.utoronto.ca | github.com/pengeri1 | www.linkedin.com/in/PengEric

Education

University of Toronto
Electrical Computer Engineering **Sept 2019 - April 2023**

Specialisation: Computer Networks and Hardware and Software
Relevant Courses: Data Structures and Algorithms, Operating Systems, Computer Organisation, Computer Networks, Databases, Software Communication and Design

Experience

Magna (Formerly Veoneer)
Quality Intern **June 2023 - August 2023**

- Designed and implemented desktop app using ASP.Net and Microsoft Sharepoint connections allowing admins to scan the sharepoint forms custom barcodes generated using VBA code, with sign off speeds increasing by 85%

Veoneer
Customer Quality Intern **May 2022 - May 2023**

- Upgraded multiple apps using .NET framework and iTAC API, to merge databases, track and record serial numbers into excel and edit module attributes for containment/testing
- Designed a full stack web application using MS SQL tables to store module build requests with ASP .Net web api calls to create and delete new build requests via a React UI
- Creating parsers in Python for computers on production lines to sort through CSV files
- Lead small teams to debug and upgrade essential IT programs user interfaces making it harder for operators to make mistakes
- Created custom forms using Power Apps and Power Automate Flows for Sharepoint lists
- Operating digital microscopes and x-rays to identify and record module failures

Toronto Transit Commission
Electrical Engineering Assistant **May 2021 - August 2021**

- Created and updated electrical and traction power design drawings via AutoCAD for PM ION 7650 Meters, neutral CT, Undervoltage relay, and breaker replacement
- Worked on Utility Locates for the department to evaluate electrical and traction power designs
- Assisted other electrical engineers on electrical asset management projects

University of Toronto
Engineering Strategies and Practice II **January 2020 - March 2020**

- Produced prototypes of the Polaris Intelligence software with better navigation menus
- Created helpful tools to simplify the user experience that allows anyone to use the

Projects

M.A.P.P.E.R - Uoft Course Project

- Led a three member team to design a fully functioning Geographic Information System in C++ using the OpenStreetMap database
- Researched and problem solved to make the map more usable and responsive, search bars, zoom, scroll, street labels, colour coding, night mode, and buildings/landmarks
- Designed an algorithm for the travelling salesman problem using distance and angle heuristics, 2-opt, parallel computing, and simulated annealing (placed 10th of ~100 teams)

Skills

Programming Languages: C, C++, C#, Java, Python
Web: React, ASP .NET Core, MS SQL, HTML
Tools: Microsoft Office, Git, Linux, AutoCAD, UI Path, Power Apps, Power Automate, Sharepoint