Mohamed Elassar, EIT

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Education

University of Ottawa – Ottawa, ON *September 2015 – April 2020*
B.A.Sc. Mechanical & Biomedical Engineering w/COOP

- Completed additional computing courses in C++/Python focused on data structures, algorithms, & OOP
- Programming Projects:
  - "Flood It" game designed in Java
  - "Paris Metro Simulation and Finding Shortest Path using Dijkstra" designed in Python
  - "Parametric 3D CAD model for Capstone" designed in MATLAB
- Graduated *magna cum laude*, CGPA 8.8/10.0
- Dean's Honour List for all academic years

Certifications

- LinkedIn Learning – "Become a Python Developer" 30 hr Learning Path *July 2020*
- LinkedIn Learning – "SQL Essential Training and Relational Databases" *June 2020*

Work Experience

Inspection Engineer (COOP) *September 2018 – December 2018*
IMPERIAL OIL – Sarnia, ON

- Streamlined and automated data-entry tasks related to the site's maintenance turnaround by creating a program in Excel VBA that utilizes ODBC, achieving a 97% reduction in total process time
- Performed field inspections on heat exchangers and high-impact pipes at the Sarnia refinery
- Updated refinery P&IDs in AutoCAD and applied Root Cause Failure Analysis (RCFA) tools to determine different failure modes whilst establishing equipment life by referring to ASME codes

Engineering Student Mentor *September 2016 – September 2018*
UOTTAWA ENGINEERING MENTORING CENTRE – Ottawa, ON

- Facilitated workshops with 20-100 students to explain engineering mechanics and C++/Python programming concepts in an easy to follow manner
- Prepared questions and mock exams to ensure students were ready for assessment
- Lead first-year students in navigating their academic careers by assisting them in the development of learning strategies, setting goals, and organizing their schedule

R&D Assistant (COOP) *May 2017 – August 2017*
UOTTAWA CENTRE FOR NANOPHYSICS – Ottawa, ON

- Designed a wooden incubator in SolidWorks for carrying out experiments on culturing cells
- Implemented a temperature control system in the incubator using metal plates with adhered silicone heaters that are activated/deactivated via a PID controller tuned in MATLAB
- Followed strict guidelines regarding microfluidic device fabrication in a controlled cleanroom facility

Relevant Skills

Object Oriented Design || C/C++ || Python || VBA || MATLAB || JavaScript || Git || NodeJS || SQL || Project Management