

Kevin Mukalel

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EDUCATION

UNIVERSITY OF WATERLOO

Bachelor of Applied Science
Candidate

ACADEMIC REPRESENTATIVE

ELECTED BY THE CLASS OF
MECHATRONICS, 2022.

Responsible for communicating with the faculty of engineering regarding academic concerns.

ST. MARY'S HIGH SCHOOL

STUDENT COUNCIL | PUBLICITY

REPRESENTATIVE

Proficient in written and oral communication

SKILLS

SOFTWARE

VBA
mQuery
HTML
CSS
JavaScript
C++
SQL
PL/SQL
Oracle Apex
Git
Relational Databases
Firebase
Data Structures & Algorithms

MECHANICAL

SolidWorks
Soldering
AutoCAD
Onshape
Desktop CNC Milling
Manual Milling
Lathing
3D-Printing
Circuit Theory

PROJECTS

Rubik's Cube Solving Robot
Biomedical Robot Arm
Fuel Cell Model Car

ACTIVITIES/INTERESTS

Self-taught Musician
Rock Climbing
Martial Arts

SUMMARY OF QUALIFICATIONS

- Experienced with frontend and backend Web Development; passionate about delivering stunning User Interfaces and comfortable User Experiences
- Experienced with object-oriented programming in C++ and PL/SQL
- Familiar with Git Version Control
- Highly motivated and eager to learn new skills; able to adapt to unfamiliar conditions quickly

EMPLOYMENT EXPERIENCE

SOFTWARE TOOLSET DEVELOPER | ATS AUTOMATION

Cambridge, Ontario | September 2019 – December 2019

- Created VBA scripts to enhance, organize and automate data in excel
- Wrote scripts in the mQuery language to perform data analytics
- Designed interactive SharePoint pages and features using custom CSS

WEB APPLICATIONS DEVELOPER | TORONTO WATER DIVISION

City of Toronto, Scarborough, Ontario | January 2019 – April 2019

- Developed secure web applications through the Oracle Apex platform
- Produced SQL Scripts to organize data into Relational Database Systems
- Developed PL/SQL procedures in Apex to implement automatic emailing programs to reduce the workload of supervisors responsible for weekly emails
- Coded triggers in Apex to capture and track changes made to critical data in city applications

FULLSTACK DEVELOPER | UPRISE, CANADA

Communitech Data Hub, Waterloo, Ontario | May 2018 - June 2018

- Designed and implemented the landing page, profile page and several other pages for a skill sharing platform using HTML, CSS and JavaScript
- Implemented login and logout functions and securely stored client information by embedding Firebase's authentication and Realtime database services
- Developed several responsive web pages for screen sizes of various resolutions for optimal viewing on any device

HARDWARE ENGINEER/MECHANICAL DESIGNER | SIENCI LABS

Accelerator Center, Kitchener, Ontario | July 2018 - August 2018

- Designed several components for desktop CNC milling machines using Onshape and SolidWorks
- Drafted dimensioned drawings using baseline dimensioning and GD&T

EDUCATIONAL EXPERIENCE

WATERLOO FORMULA ELECTRIC DESIGN TEAM | UNIVERSITY OF WATERLOO

September 2017 – August 2018

- Designed the vehicle's rear tripod housings and steel inserts on SolidWorks
- Ran SolidWorks configurations to determine the optimal half-shaft length, accounting for Camber and Toe angles
- Designed and fabricated a mounting plate to firmly secure the electric car motor during dynamometer testing