

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

HTML

CSS

JavaScript

C++

Firebase

Data Structures & Algorithms

MECHANICAL

SolidWorks

AutoCAD

Onshape

Desktop CNC Milling

Manual Milling

Lathing

Tap Drilling

3D-Printing

Circuit Theory

PROJECTS

Rubik's Cube Solving Robot

Biomedical Robot Arm

Fuel Cell Model Car

ACTIVITIES/INTERESTS

Guitarist for Youth Group choir

Self-taught Musician

Rock Climbing

Martial Arts

Soccer

Car and Space Enthusiast

Long Distance Running

SUMMARY OF QUALIFICATIONS

- Experienced with frontend and backend Web Development
- Proficient in Mechanical Design/3-D Modeling
- Certified in machine shop safety and experienced in operating lathes and milling machines
- Highly motivated and eager to learn new skills; able to adapt to unfamiliar conditions quickly

EMPLOYMENT EXPERIENCE

May 2018 – August 2018

FULLSTACK DEVELOPER | UPRISE, CANADA

Communtech Data Hub | Waterloo, Ontario

- 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

MECHANICAL ENGINEER/DESIGNER | SIENCI LABS

Accelerator Center | Kitchener, Ontario

- Designed several components for desktop CNC milling machines using Onshape and SolidWorks
- Created dimensioned drawings using baseline dimensioning and GD&T
- Machined several CNC mill components using Lathes, Manual Milling Machines, Belt Sanders, Tap Drills, Horizontal and Vertical Bandsaws

FRONTEND DEVELOPER/UX DESIGNER | LUUMA

Communtech Hub | Kitchener, Ontario

- Created an interactive cost-savings calculator web-application to demonstrate to clients how much time and money they can potentially save
- Designed an engaging daily blog and several article pages through WordPress to maximize client interest and promote products efficiently
- Performed diagnostics for the Luuma app and updated the app info on Google Play Store and Apple App Store

EDUCATIONAL EXPERIENCE

WATERLOO FORMULA ELECTRIC DESIGN TEAM | UNIVERSITY OF WATERLOO

September 2017 – Present

- Designed the vehicle's rear tripod housings and steel inserts
- Ran SolidWorks configurations to determine the optimal half-shaft length, accounting for Camber and Toe angles
- Worked with various aspects of Solidworks to create and organize a standard fastener library consisting of over 200 components available for general team implementation
- Designed and fabricated a mounting plate to firmly secure the electric car motor during dynamometer testing