

JUN YOUNG KIM

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SKILLS

Software: SOLIDWORKS, AutoCAD, Revit, Altium, Excel, Microsoft Azure Platforms, MATLAB, Inventor, Arduino IDE, Quartus Prime

Programming Languages: C++, MATLAB, Python, HTML, CSS, JavaScript, VHDL

Technical: 3D Design, 3D Printing, Breadboard Circuits, Soldering

WORK EXPERIENCE

Search Engine Optimization Engineer

February 2024 - April 2024

[CSW \(Chill . Study . Work\)](#)

Oakville, ON

- Managed frontend development, creating derivative sites for CSW's main website to drive traffic, leveraging relevant search results and trends.
- Implemented SEO strategies to maintain growth, utilizing data-driven insights and making informed decisions for continuous improvement in organic search traffic.
- Authored HTML-written articles targeting specific keywords, optimizing content for search engines, and boosting website ranking through SEO best practices.

Microsoft Azure AI Project Intern

January 2024 - April 2024

University of Waterloo

Waterloo, ON (Remote)

- Engineered a streamlined pipeline for an AI healthcare chatbot using Microsoft Azure Platform expertise for a realistic, sustainable product.
- Applied strong communication skills to translate complex Azure concepts, ensuring team alignment and understanding.
- Investigated revenue models tailored to our healthcare AI chatbot, identifying subscription services, licensing agreements, and strategic partnerships for highly sustainable and adaptable earning facets.

Design Team Lead/Founder

September 2022 - June 2023

FRC Team 9263 - ALD Lions

Burlington, ON

- Pioneered the creation of a FIRST Robotics Team, demonstrating an ability to identify opportunities and take the initiative to turn ideas into reality.
- Spearheaded a multidisciplinary team of engineers as design team lead, facilitating team meetings to distribute the development of aspects of a complex robot and working with sub-teams to create the best design.
- Harnessed 2 years of industry-grade programs such as SOLIDWORKS to design visionary drivetrains, chassis, and more.

PROJECTS

Bionic EVO: Prosthetic Arm (C++, SOLIDWORKS, LaTeX, 3D Printing, Arduino IDE, Circuitry Design) ([Github](#))

- Leveraged 6 years of expertise in C++ programming and circuitry design to create an efficient control system
- Worked with emerging technology such as electromyography sensors to capture muscle movement which enabled an intuitive control interface for the prosthetic hand.
- Harnessed 2 years of SOLIDWORKS experience skills via a mentor to create a functional 3D design for the prosthetic that advanced 25% efficiency per iteration, creating an intuitive design for 3D printing.

BrailleEye: AI Braille Label Maker (C++, 3D Printing, 3D Design, Arduino IDE, Circuitry Design, Edge Impulse)

- Integrated a Braille label maker and ESP32 microcontroller, enabling communication between the two devices by using the ESP32's camera module to interface with an AI model trained through Edge Impulse, facilitating real-time object detection.
- Engineered a sophisticated system of converting detected object names into Braille, which involved translating each letter of the identified object's name into corresponding angles, precisely controlling a stepper motor to turn the dial of the Braille label maker.

CERTIFICATIONS

- [Microsoft AZ-700](#)
- [MATLAB](#)
- WHIMIS 2015
- [Microsoft AI-900](#)
- [Altium Education](#)
- Ontario G2 License

EDUCATION

Bachelor of Applied Science in Electrical Engineering, Honors, Co-op

University of Waterloo

Expected Graduation 2028

Waterloo, ON