

Jun Young Kim

junyoungkimm.netlify.app | (647)-787-3364 | Jun31kim@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION AND SKILLS

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

Waterloo, ON
Expected Graduation 2028

- **Software:** Inventor, Python, C++, SOLIDWORKS, Illustrator, MATLAB, AutoCAD, Revit, Arduino IDE, Altium, Excell, Azure, MATLAB
- **Technical:** 3D Design, 3D Printing, Breadboard Circuits, Soldering

WORK EXPERIENCE

Search Engine Optimization Engineer
[CSW \(Chill . Study . Work\)](#)

Oakville, ON
February 2024 - April 2024

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

Microsoft Azure AI Project Intern
University of Waterloo

Oakville, ON
January 2024 - April 2024

- Created a streamlined pipeline for an AI healthcare chatbot using Microsoft Azure Platform expertise for a realistic, sustainable product.
- Utilized strong communication skills to translate complex Azure concepts, ensuring team alignment and understanding.
- Researched 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
Team 9263 - ALD Lions

Oakville, ON
September 2022 - June 2023

- 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

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.

Bionic EVO: Prosthetic Arm //C++, SOLIDWORKS, LaTeX, 3D Printing, Arduino IDE, Circuitry Design,

- Leveraged 75 months 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.

Gyro Controlled Excavator Arm //C++, SOLIDWORKS, 3D Printing, Circuitry Design, Arduino IDE,

- Leveraging SOLIDWORKS modeling to design a compact and efficient robotic arm structure incorporating three servo motors to enable precise movement of each joint, demonstrating experience in CAD design and robotics engineering principles.
- Implemented advanced MPU-6050 Accelerometer technology into the robotic arm system and refined soldering techniques to seamlessly integrate the gyroscope with the microcontroller, ensuring precise control over the arm's movements.

CERTIFICATIONS

- [Microsoft Certified: Azure Fundamentals](#)
- [Microsoft Certified: Azure AI Fundamentals](#)
- [MATLAB](#)