Ryan Jung

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EXPERIENCE

Electrical Calibration and Software Engineer
Pylon Electronics   **October 2023 - September 2024**
· Developed a GUI software for FLUKE calibrator detecting spreadsheet input values and interpret digital screen outputs via machine vision
· Created VBA automated calibration procedures reducing overhead by up to 95%
· Automated torque calibration over Bluetooth using Serial Port Protocol, increasing efficiency by 80%
· Designed and tested a cost-effective, automated tensiometer calibrator for precision testing through SolidWorks

Instructor
LABS   **June 2020 - September 2021**
· Provided tutoring services for students in International Baccalaureate, SAT, TOEFL, and Engineering courses
· Developed and delivered a comprehensive IB curriculum to classes of up to 25 students, resulting in a 95% student pass rate
· Collaborated with parents to provide updates on student progress and recommended strategies for continued learning at home

Researcher
Sungkyunkwan University   **October 2018 - January 2019**
· Conducted research in a microbiology lab, specializing in the cultivation of microorganisms
· Participated in weekly meetings to discuss project progress and share insights with the research team
· Collaborated with senior researchers to analyze data and interpret results effectively

PROJECTS

Computer Vision Data Extractor
Pylon Electronics · August 2024 - September 2024
· Designed a computer vision data extractor that reduced manual data entry by 40% through integration with OpenCV
· Implemented machine learning algorithms using Tensorflow, resulting in a 25% improvement in data extraction precision
· Added extensibility by enabling it to use LLM API for reliable data comprehension

Matter Enabled Smart Desk
April 2024 - August 2024
· Developed an IoT-enabled control hardware on ESP32 for a motorized standing desk
· Integrated Matter protocol to enhance interoperability and seamless connectivity across platforms and improving user accessibility by 40%
· Integrated with Apple HomeKit to be used with Siri

Unreal Engine 4 Mods
Mod Link · August 2023 - Present
· Developed a suite of Unreal Engine 4 mods, enhancing gameplay with custom features, generating over 25,000 downloads, and receiving
  positive user ratings across Steam platform.
· Communicated with the users regularly to publish improvements and added features.
· Updated the mods to enhance compatibility for a wider use environment and in cooperation with other custom mods.

EDUCATION

Bachelor of Applied Science in Electrical Engineering
University of British Columbia · Vancouver · 2025

AFFILIATIONS

Engineers and Geoscientists British Columbia · September 2021 - Present

SKILLS & INTERESTS

Skills: C, C++, Python, Next.js React.js, Redux, HTML/JS/CSS, TypeScript, TensorFlow, PyTorch, OpenCV, UI/UX

Interests: AI Development, Software Innovation, IoT Integration, Swimming, Debate