

Haoran Ji

Job objective: Automation Engineer

Age: 20

Place of Origin: Toronto

 Education: Undergraduate studies in progress

Gender: Male

Address: 52 Dame Gruev
Dr.

Phone: (+1) 6475641191

❖ Email:

johnsonji0602@gmail.com

JOHNSON'S RESUME

Education

- 2023.09.01 (Expected) 2028.04.28, attend in McMaster University
- Program: Mechatronics Engineering COOP
- Core courses: Control theory; embedded system; E&M; classical, Newtonian, analytical mechanics; digital system design; robotics; operating system.
- Honor: GPA 11.7/12 (equivalent to 4.0 in 4.0 GPA system) within top 1% in McMaster Engineering. Awarded in McMaster Engineering Entrance Scholarship and Outstanding Student Scholarship in Course in year 1 and 2.

Working

■ 2024.01-2024.06 Location: Undergraduate Research Assistant in ECE department, McMaster

Position: data analysis (Tutor: Dr. Jun Chen)

Participated in research on image deblurring for RAW format images using machine learning methodologies.

■ 2025.04.27-2025.08.27 Location: ABB Shanghai, B&R Branch

Position: Automation Engineer Internship

- 1. Independent Development of a Six-Axis Robotic Arm Using Automation Studio (Based on SceneView) and Corresponding Human-Machine Interface (HMI) Based on mappView.
- 2. LLM-based Q&A Assistant Developed with Dify Platform and Python for RAG-Based Architecture: Designed a Q&A Framework, Curated the Database, and Implemented Nonlinear Fitting Algorithms
- 3. A tool developed based on Python and Dify for real-time monitoring of OPCUA variables and generating fitting curves and charts.

Skills

Skills: Proficient in Control Theory (Classical and Modern), Keil-Based Microcontroller Development, MATLAB and Simulink, CAD, and Industry-Standard Commercial Software (Automation Studio). Use C/C++ and Python to do the software development.

Soft skills: Skilled in delivering presentations, proficient in using GitHub, Markdown, Excel, and PowerPoint, with the ability to create structured and standardized documentation.

₽ Projects

https://github.com/Albert-Ludwig