



## Haoran Ji

**Job objective:**  
Automation / Robot  
Engineer

- ❖ **Age:** 20
- ❖ **Place of Origin:** Toronto
- ❖ **Education:** Undergraduate studies in progress
- ❖ **Gender:** Male
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johnsonji0602@gmail.com
- ❖ **GitHub Link:**  
<https://github.com/Albert-Ludwig>
- ❖ **Projects slides:**

### Education

- **2023.09.01 - (Expected) 2028.04.28, attend in McMaster University**
- **Program:** Mechatronics Engineering COOP
- **Honor:** GPA 11.7/12 (equivalent to 4.0 in 4.0 GPA system) within top 5% in McMaster Engineering. Awarded in McMaster Engineering Entrance Scholarship and Outstanding Student Scholarship in Course in year 1 and 2.

### Working Experiences

- **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 mapView.
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. Proficient in digital circuit design and testing, as well as mechanical numerical analysis using commercial software (Maple and FlexPDE).

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

### Personal Statement

- I am a dedicated professional and natural leader, excelling in team settings through expert time-management and interpersonal inclusivity. This minimizes operational friction, ensuring efficient task completion. My diverse interests span German philosophy, classical music, sketching, and global literature, complemented by a passion for outdoor sports. I am an eager collaborator, self-learner, and emotionally stable communicator thriving in team environments.