

Yibo Yang

21018595, 2B Mechatronics Engineering

226-581-3608 | y68yang@uwaterloo.ca | <https://www.linkedin.com/in/yby04/>

SUMMARY OF QUALIFICATIONS

- Proficient in SolidWorks (CSWA certified) AutoCAD and 3D printing
- Acquainted with LabVIEW, VHDL, MATLAB and C++ programming languages
- Fluent in Mandarin, with exceptional proficiency in both spoken and written communication

PROFESSIONAL EXPERIENCE

R&D Engineering Intern

Jan. 2024 – April 2024

Valeo Automotive Air Conditioning Hubei Co., Ltd

Hubei, China

- Assembled a test bench that integrates power supply, power board, control board, and communication modules effectively
- Developed an Active Grille Shutter (AGS) [upper computer](#) utilizing **LabVIEW**
 - Designed a customizable test program enabling the execution of multi-mode alternating tests on six motors simultaneously
 - Implemented intuitive data feedback and automatic **report generation**
 - Documented a comprehensive **instruction manual**, delineating step-by-step procedures for clear and concise user guidance

Mechanical Engineering Assistant

May 2023 – Aug. 2023

Suzhou HYC Technology Co., Ltd

Jiangsu, China

- Generated **200+** detailed engineering drawings
- Designed and developed an efficient [test fixture](#) for PCB testing in products
 - Applied standard part data to design structurally sound and cost-effective components and systems, streamlining production and reducing project costs
 - Created **assembly drawings** that accurately simulate real-world operating conditions, ensuring the effectiveness of product designs

KEY PROJECTS

[Cubli](#)

May 2023 – June 2023

- Assembled a cube with algorithmically controlled momentum wheels to achieve dynamic balance, effectively managing angular momentum
- Implemented SMT component soldering on PCBs using a hot air gun
- Utilized Wi-Fi connectivity to remotely fine-tune program parameters within the Cubli, optimizing its performance and functionality

[Ukulele-playing Robot](#)

Nov. 2022 – Dec. 2022

- Lead the design and assembly of the mechanical components
- Developed program functions and facilitated team understanding of design concepts

EDUCATION

Candidate for BAsC in honours Mechatronics Engineering

University of Waterloo, Waterloo, Ontario

Sept. 2022 – Present