

Billy(Yibo) Yan

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Education

New York University, College of Art and Science / Courant, Manhattan NY

May 2022

- *Bachelor of Art, Mathematics and Computer Science, GPA : 3.91 / 4.0*
- Relevant Courses : Discrete Mathematics, Calculus 2&3, Web Design, Data Structure, Object-oriented Programming, Computer Organization, Economics, Engineering, History, Writing

Hong Kong University, School of Engineering

July 2020

- *Summer Program, Electrical and Electronic Engineering*

Chengdu Shude High School

May 2019

IB Diploma, Grade : 43/45, TOEFL : 107/120, Top 5% graduate

Experience

Huawei Cloud, Beijing, China

June 2023 - August 2023

- **Operation and Maintenance Internship**
- Interned at Huawei's China HQ in the CDN & Edge Computing Department, where I developed C++ codes to help to maintain Cloud infrastructure and services, ensured secure data transfer, acquired knowledge of various cloud infrastructures (Private CDN, P2P CDN), and actively participated in a project collaborating with a concert of dancing team, contributing to the overall understanding of full stack development processes and team management.

Jingwei Technology, Shanghai, China

June 2021 - August 2021

- **C++ Developer Internship**
- Interned at Chengdu Jingwei Co., Ltd Shanghai Branch., a high-tech enterprise specializing in UWB technology, products, and system solutions. In the hardware department, conducted testing on the new UWB locating system, applying embedded programming, and developed a Python script for analyzing and presenting test results. In the software department, applied the Time of Flight (TOF) algorithm to enhance the precision of location tracking.

New York University, New York, United States

January 2023 - May 2023

- **Co-Founder and Project Manager**
- Led the Mars Rover "Ying" project team, overseeing the entire development lifecycle, collaborating on conceptualizing rover functionalities and contributing to the logo design, utilized Fusion 360 for detailed 3D modeling and functional simulations, constructed the rover with VEX robot-related parts and an Arduino microcomputer, programmed autonomous and manual controls in C, and conducted testing and refinement in the NYU Tandon Laboratory to ensure optimal performance in simulated Mars conditions.

Uranus Studio, Chengdu, China

September 2021 - May 2022

- **Project engineer and co-founder**
- Founded Uranus Studio, leading the development of fall prevention devices for the elderly using millimeter-wave radar technology; formulated and executed a project plan, recruited students in Engineering field, and independently prototyped the devices using Arduino microcomputers and C language embedded programming; additionally, conducted field market research to enhance practical skills in embedded development and market research processes.

Skills

Language : English (Bilingual), Mandarin(Bilingual), Cantonese (Elementary)

Professional Skills :

- Programming Language: C, C++, C#, Java, Javascript, Python, Matlab, Assembly Language, Latex, HTML, CSS
- Editing Tools: PowerPoint, Word, Excel, Markdown(Typora)
- Engineering related softwares : Photoshop, Final Cut Pro, Fusion 360(Computer - Aided Design)

Award / Honer

- **Team Silver & Individual Excellence**, American Computer Science League September 2021
- **Meritorious**, Mathematical Contest In Modeling, High School August 2021
- **Top 20**, Canadian Computing Competition, University of Waterloo August 2021
- **Global Distinction**, Computational and Algorithmic thinking July 2020

Leadership / Professional Affiliations

- **President Of Student Council**, Chengdu Shude High School May 2021 - May 2022
- **Co-Founder**, Uranus Studio, Chengdu China September 2021 - May 2022