

Xingtai Huang

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EDUCATION

Cornell Tech, Cornell University

New York, NY

MS in Electrical Computer Engineering Program – Electrical Engineering, Merit Scholarship

Expected May 2026

Relevant Coursework: Applied Machine Learning, Applied Digital ASIC Design, Human-Robot Interaction, Human-Computer Interaction Design, Product Studio

Syracuse University

Syracuse, NY

BS in Electrical Engineering, GPA: 3.88/4.0, Annual Dean's Scholarship, Invest in Success Scholarship

Dec 2024

Relevant Coursework: Electromagnetics, Power Engineering, Analog Electronics
Digital Logic Design, Systems & Network Programming

SPECIALIZED SKILLS

Coding Language: C, Arduino

Operating System: Windows, Linux

Other Tools: MATLAB, Jupyter Notebook, Quartus II, Multisim, Proteus 8 Professional, Powerworld, WaveForms, Unity, Alibaba Cloud

PROFESSIONAL EXPERIENCE

Shenzhen Kingdays Electronics Co., LTD, Website Designer Intern, Shenzhen, China

July- Sept 2024

Import-export company specializing in industrial tapes, insulation, and electronic components.

- Built and maintained the company website on Alibaba Cloud Web Hosting, ensuring smooth operation.
- Designed and updated pages using WordPress and Elementor, uploading ~100 product PDFs, and applied SEO and spam protection.
- Regularly updated product content, attracting ~4,000 daily visits and improving site visibility.

RELEVANT ACADEMIC PROJECTS

Plant Watering Robot “IrregaTron”, (Arduino) Syracuse University

Fall 2023- Spring 2024

Part of a 4-person team that designed and built a plant-watering robot to reduce manual labor in household plant care.

- Controlled stepper motor with A4988 driver to adjust the spraying platform height for watering.
- Implemented Arduino PID control for four Mecanum wheels, ensuring precise and stable movement on varied surfaces.
- Created wiring diagrams and visual materials (flowcharts and exhibition posters) to explain mobility and spraying systems.

Self-balancing Car “Segway”, (Arduino) Syracuse University

Spring 2024

Led a 3-person team in designing a self-balancing car to explore vehicle stabilization concepts.

- Planned tasks, coordinated team progress, and liaised with instructors throughout the semester.
- Implemented car-body balancing system with PID control, tuning the P, I, and D parameters for stable performance.
- Designed an orientation and leveling system using BNO055 to track Gyroscope, Accelerometer, and Magnetometer, with LEDs indicating sensor level.

LEADERSHIP EXPERIENCE

Junior Design Group Leader, Digital Signal Processing and Control Systems Lab, Syracuse, NY

Spring 2024

- Led a 3-person team throughout the semester, planning weekly tasks, assigning responsibilities, coordinating 8 project milestones, and managing midterm and final exhibition presentations with the instructor.

ACTIVITIES and INTERESTS

Syracuse University Chinese Students Scholar Association (SUCSSA), Publicity Painter

Aug 2022- Dec 2024

- Designed posters, visual materials, and merchandise graphics for campus association, including social media (WeChat, Weibo) content and the association logo, to promote events.

GuangZhou University Music Team, Drummer

Aug 2020- May 2022

- Drummer and music enthusiast, casually participated in the music team, including drumming and singing at campus showcases.