Zexuan Yan

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EDUCATION

University of Illinois at Urbana Champaign	Expected Graduation Date: May 2026
Bachelor of Science in Computer Engineering	Dean's List, GPA: 3.96

SKILLS

Programming: C, C++, CUDA
Software: Altium, Fusion 360, LoggerPro, Photoshop, Quartus, KiCad, Git, Nsight Compute, ESP Tools
Technical: Prototyping, Soldering, Power Tools Operating, Essential Electronic Equipment Operating (Oscilloscope, Multimeter, Power Supply, etc.), Breadboarding/ Circuitry, 3D Printing

WORK EXPERIENCE

Electrical Engineering Co-op at BISSELL Homecare   June 2023 - August 2023
- Assisted in developing the new BISSELL app on both IOS platform and Android platform.
- Developed a wireless debugging and fleet flashing system and integrated it with the new data logger.
- Took great initiative in learning the product management method utilized at BISSELL.
- Earned an invitation for a return Co-op period at BISSELL due to standout contributions.

Lecturer and Tutor at HD EDU   January 2023 - May 2023
- Designed and delivered comprehensive review lectures covering the entirety of Multivariable Calculus curriculum at the University of Illinois.
- Held office hours and effectively answered questions from the students to help them further their understanding of this class.
- Recognized as the "rising star" among the new tutors at the end of the semester.

Electrical Engineering Intern at Stanley Black & Decker   June 2022 - August 2022
- Designed a PCB Board for an Automated, Raspberry Pi-based Power Pool Module Testing Rig for more efficient testing and verification of power tool modules.
- Developed a Software Qualification Procedure document for a new platform through the test rig.
- Took great initiative in learning both technical and communication skills.

LEADERSHIP EXPERIENCE

Class Assistant for Honors Lab   August 2023 - Present
- Actively help students form groups and revise their project proposal to start this class smoothly.
- Hold weekly meetings with students and answer questions to ensure better success of the group.

Vice Department Chair at Chinese Student & Scholar Association   March 2023 - Present
- Propose and lead filming of monthly podcasts featuring accomplished experts sharing their valuable insights and experience to help all students.
- Lead and improve the recruitment process to better acquire talent for the success of the association.
- Plan team building events to ensure a friendly and collaborative culture within the department.

Vice President of Operation at Product Management @ Illinois   January 2023 - Present
- Propose new direction and structure of the organization for continuous improvement.
- Ensure proper functioning of the organization and think spontaneously to solve unexpected problems.
- Work as recruitment chair and conducted interviews for recruiting new members and selecting new leaders.
- Engage in learning product management concepts and conceptualize, propose, and present a solution to a common problem of social media.

TECHNICAL EXPERIENCE

IMPACT Research Group   January 2023 - Present
- Collaborate with a Ph.D. student to optimize training of graph neural networks using heterogeneous graphs by implementing accelerated GPU code.
- Presented research findings on accelerated training of Relational Graph Neural Networks through CUDA Kernel Tuning at Undergraduate Research Symposium in 2023.

Chinese Student Scholar Association   September 2022 - Present
- Oversaw all aspects of rehearsal and backstage production in Spring Festival Gala as an assistant director.
- Improved the Guide for New Students by gathering and updating relevant information.
- Actively helped the new students by answering their questions and holding tours to help them familiarize themselves with the campus.

ECE 120 Honors Lab   August 2022 - May 2023
- Lead the development of a VGA Driver with user input using breadboards, Arduino, and TTL chips.
- Finished a 30-page report to help future students develop new functions based on the existing VGA Driver.