

ERIK LIU

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EDUCATION

University of Illinois at Urbana-Champaign

Expected May 2026

Sophomore

Bachelor of Science, Civil
Engineering

GPA: 3.20 Technical GPA: 3.27

Relevant Coursework:

Aerospace Flight
Mechanics

Engineering
Materials

Thermodynamics

Statics & Dynamics

Computer-Aided
Design

TECHNICAL SKILLS

Computer Languages: Python, Java, C++, JavaScript, HTML/CSS, PHP, MySQL

CAD: Siemens NX

Multimedia: Adobe Creative Cloud (Photoshop, Illustrator, Premiere Pro), Blender 3D, Microsoft Office (Word, Excel)

EXPERIENCE

- **Web Development for Medical Company (2020–Present)**
 - Engineered and implemented web presence with attention to user experience
 - Manage end-to-end website development, spanning both backend and frontend frameworks
 - Collaborated closely with stakeholders to transform their vision into a functional website
- **Senior Project Lead (May 2022)**
 - Spearheaded the successful design and implementation of an innovative, large-scale research project aimed at studying the effectiveness of vehicle-style control mechanisms on crowd flow
 - Organized small team from concept through execution, demonstrating exceptional team communication, leadership, and project management skills.
 - Engineered functional, homemade traffic signals using Arduino, showcasing technical abilities and engineering discipline
 - Developed comprehensive project documentation, including design specifications, operational plans, and placement strategies, ensuring clarity and concise execution
 - Analyzed project outcomes and collected data, contributing valuable insights into the dynamics of pedestrian flow and the potential for innovative crowd management strategies.
- **Independent Automotive Restoration Project (January 2024)**
 - Restored a non-operational vehicle, applying mechanical knowledge and troubleshooting skills to identify and rectify issues.
 - Designed and fabricated a custom exhaust system, demonstrating precision measurement, and hands-on experience and ability, acquiring and applying welding and metal fabrication skills in a short timeframe
 - Managed the project to completion, showcasing self-motivation, planning, and ability to work on complex tasks.
- **University Cafeteria – Food Server (April 2023–December 2023)**
 - Demonstrated ability to work in a fast paced work environment, ensuring prompt and accurate service
 - Developed skills to communicate and coordinate efforts between coworkers in a work setting,
- **Grocery Store Deli Associate**
 - Delivered timely and precise responses to customer orders ensuring customer satisfaction
 - Mastered multitasking and prioritization in a demanding retail environment