

LUKE C. BROWN

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EDUCATION

University of Illinois Urbana-Champaign

Expected May 2026

Bachelor of Science in Aerospace Engineering | Minor in Computer Science

GPA: 3.68/4.00

Related Coursework:

Computer Aided Design Incompressible Flow Dynamical Systems Aerospace Structures

TECHNICAL SKILLS

CAD: Siemens NX, SolidWorks, Fusion360

Programming Languages: C++, Java, Python, HTML, CSS, JavaScript

Tools: 3D Printing, Breadboarding, Finite Element Analysis

WORK EXPERIENCE

Grainger College of Engineering | Urbana, IL

Course Assistant

August 2024 – Present

- Facilitated lab sections of AE 100 comprised of 50 first year students
- Guided students through designing, building, and testing model rockets and gliders

Align Production Systems | Decatur, IL

Mechanical Engineering Intern

June 2024 – July 2024

- Designed sheet metal covers in SolidWorks to mitigate risk at pinch points for an industrial conveyer line
- Analyzed processes from job release through reduction, and laid the groundwork to automate tasks and go paperless
- Corresponded with colleagues at another location, and prepared weekly project updates to present to the CEO
- Drafted a CAD design for a sheet metal storage platform that implemented and demonstrated company technology

Arlington Heights Park District | Arlington Heights, IL

Aquatic Leadership Team Member / Lifeguard / Swim Coach

May 2019 – January 2024

- Created and instructed weekly hour-long trainings that brought our staff from failing external audits to passing

PROJECT HIGHLIGHTS

Azul Airlines Alternate Analysis

February 2024 – May 2024

- Collaborated on a multinational team comprised of US and Brazilian students
- Analyzed flight data from Azul Airlines, and proposed improvements to planning alternates for their main hubs
- Presented the analysis and proposals to Azul at their headquarters in São Paulo, Brazil

Personal Website and Portfolio

August 2023 – November 2023

- Learned HTML, CSS, and JavaScript through video tutorials and reference pages
- Designed an online portfolio to showcase my projects and papers, (lukecbrown.com)

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

Marching Illini | Champaign, IL

Cymbal Player

May 2022 – Present

- Spend up to 20 hours a week rehearsing and performing at every home football game, as well as other events