EMILY WILLIAMS

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EDUCATION

University of Illinois at Urbana-Champaign

May 2021

Bachelor of Science in Aerospace Engineering · Minor in Atmospheric Sciences

Dean's List, James Scholar, Tau Beta Pi, Alpha Omega Epsilon, Order of Omega

GPA: 3.93/4.00

WORK EXPERIENCE

CU Aerospace

Undergraduate Research Assistant

Champaign, IL

 Led procedural development processes for thermal vacuum and vibrational testing for monofilament vaporization propulsion thruster package Summer 2019

· Served as liaison between on-site and campus lab teams working on joint payload project

General Electric Aviation

GEnx Product Operations Co-op/Intern

Cincinnati, OH Summer 2018

- \cdot Reallocated 300+ GEnx 1B booster fan blades in spares inventory to usable parts kitted for application on the assembly line, expediting the development of 20 affected engines
- · Implemented program for tracking forecasted commits across multiple product lines to proactively address maintenance repair and overhaul (MRO) issues with executive team

KIE Web Development

Founder, Full-Stack Developer

Fall 2018 - Present

- Coding HTML/CSS and JavaScript to develop personal and professional websites hosted on GitHub for 8 clients and businesses as of May 2019
- · Leading joint consulting venture and engineering application to improve online presence of local businesses and personal branding of individuals

The Grainger College of Engineering at the University of Illinois at Urbana-Champaign

Tutor and Peer Advisor

Fall 2019 - Present

· Leading reviews and tutoring for students through the Center for Academic Resources in Engineering

Engineering Learning Assistant for ENG 100

Fall 2019 - Present

· Instructing 20+ first-year aerospace students while providing direction, guidance, and mentorship

Course Assistant for CS 101

Fall 2018 - Present

Supervising and guiding 35+ freshmen computer science students through laboratory sessions
of introductory-level technical course, facilitating learning of Python, MATLAB, and symbolic algebra

LEADERSHIP AND ACTIVITIES

Women In Aerospace

Fall 2017 - Present Spring 2019 - Present

· Created Departmental Development Committee of 6 representatives to improve female retention rate by coordinating outreach events with prominent women in engineering and industry leaders

· Collaborated with Aerospace Undergraduate Advisory Board of 8 to execute social mixers and other department-wide fundraising events

Satellite Development Organization

President

President

Fall 2017 - Present

Fall 2019 - Present

- Designed and developed new website and other media to rebrand and market towards recruiting new talent to work in the Laboratory for Advanced Space Systems at Illinois
- · Creating and teaching new engineering course to introduce 20+ underclassmen to satellite development research opportunities on campus

Laboratory for Advanced Space Systems at Illinois

Program Manager

Fall 2017 - Present Spring 2019 - Present

- · Overseeing and monitoring all satellite mission progress across entire laboratory program through collaboration with mission coordinators and subteam leads
- · Implementing robust scheduling system using Microsoft Project adaptable for tracking mission deliverables and responsibilities for 6 active satellite programs

SKILLS

Programming: Python, JavaScript, HTML/CSS, SQL, MATLAB, Bootstrap, LaTeX, Visual Studio, Full-Stack Development **Industry:** PTC Creo, Siemens NX, MS Project/Visio, Soldering, Thermal Vacuum, 3D Printing, Technical Writing