EMILY WILLIAMS

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EDUCATION

University of Illinois at Urbana-Champaign May 2021 GPA: 3.93/4.00 Bachelor of Science in Aerospace Engineering · Minor in Atmospheric Sciences Dean's List, James Scholar, Tau Beta Pi, Alpha Omega Epsilon, Order of Omega WORK EXPERIENCE **CU** Aerospace Undergraduate Research Assistant Champaign, IL Summer 2019 • Leading procedural development processes for thermal vacuum and vibrational testing for monofilament vaporization propulsion thruster package **General Electric Aviation** GEnx Product Operations Co-op/Intern Cincinnati, OH Summer 2018 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 5 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

Developing sister site called Howie Work for independent freelance web developers and open projects

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

• Instructing 20+ first-year aerospace students while providing direction, guidance, and mentorship Course Assistant for CS 101

 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 President Spring 2019 - Present

Fall 2019 - Present

Fall 2018 - Present

Fall 2017 - Present

Fall 2017 - Present

Spring 2019 - Present

Fall 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

• 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

President

- 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 5 active satellite programs
- Developing software in Visual Studio to display pass trends and visual data onscreen through mission control accessible webpages using HTML/CSS

SKILLS

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