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 GPA: **3.93**/4.00 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 Serving 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 • Reallocated 300+ GEnx 1B booster fan blades in spares inventory to usable parts kitted for Summer 2018 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 • 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 Fall 2019 - Present Tutor and Peer Advisor Leading reviews and tutoring for students through the Center for Academic Resources in Engineering Fall 2019 - Present Engineering Learning Assistant for ENG 100 • 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 Fall 2017 - Present Women In Aerospace President 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 Fall 2017 - Present **Satellite Development Organization** Fall 2019 - Present President 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 Fall 2017 - Present Program Manager Spring 2019 - Present

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

Overseeing and monitoring all satellite mission progress across entire laboratory program

• Implementing robust scheduling system using Microsoft Project adaptable for tracking mission

through collaboration with mission coordinators and subteam leads

deliverables and responsibilities for 5 active satellite programs