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
· Led procedural development processes for thermal vacuum and vibrational testing for Summer 2019
monofilament vaporization propulsion thruster package
· 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
· 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 10+ clients and businesses
· 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
Lead Tutor and Peer Advisor Fall 2019 - Present
· Leading reviews and tutoring for students through the Center for Academic Resources in Engineering
· Assisting in recruitment efforts for new tutors and administration logistics for walk-in tutoring
Head Engineering Learning Assistant for ENG 100 Fall 2019 - Present
· Instructing 20+ first-year aerospace students while providing direction, guidance, and mentorship
· Overseeing all Engineering Learning Assistants and ENG 100 course activities for all 11 departments
Course Assistant for CS 101 Fall 2018 - Present
· Supervising and guiding freshmen computer science students through laboratory sessions
and office hours, facilitating learning of Python and MATLAB

LEADERSHIP AND ACTIVITIES

Women In Aerospace **Fall 2017 - Present**
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

Satellite Development Organization **Fall 2017 - Present**
President 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 25+ underclassmen to satellite
development research opportunities on campus

Laboratory for Advanced Space Systems at Illinois **Fall 2017 - Present**
Program Manager 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