Emily Williams

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Education

University of Illinois at Urbana-Champaign **May 2021**

B.S. in Aerospace Engineering · Minor in Atmospheric Sciences GPA: **3.91**/4.00

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

Work Experience

General Electric Aviation

GEnx Product Operations Co-op/Intern Cincinnati, OH
Summer 2018
- Executed technical solutions with cross-functional global teams in time-sensitive cases involving changes in design with FARO arm elimination and forward fan shaft
- 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

CS 101: Introduction to Programming for Engineers and Scientists

Course Assistant Fall 2018 - Present
- Nominated to supervise and guide freshmen computer science students through laboratory sessions of introductory-level technical course
- Working directly with course administration team while holding office hours and discussion sections for students, facilitating learning of Python, MATLAB, and symbolic algebra

KIE Web Development

Founder/Web Developer Spring 2019 - Present
- Coding and developing personal and professional websites for clients and their businesses
- Using HTML/CSS and Java/JavaScript to create webpages hosted on GitHub
- Partaking in joint consulting venture and engineering application to improve online presence of local businesses

Curricular Involvement

Women In Aerospace Fall 2017 - Present

Secretary Spring 2018 - Present
- Created Aerospace Departmental Development Committee to improve female retention rate by coordinating outreach events with prominent women in engineering and industry leaders
- Collaborated with Aerospace Undergraduate Advisory Board to execute social mixers and other department-wide fundraising events

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 adaptable for tracking mission deliverables and responsibilities for five active satellite programs

Systems Engineer Fall 2018 - Present
- Drafting proposals for future missions for satellites for low-Earth orbit research
- Coordinating payload trade studies and designing structural components for future satellites

Test Engineer Fall 2018 - Present
- Managing and supervising testing of mechanical components for projects
- Overseeing use and experiments involving 3D printers, thermal vacuums, and soldering equipment

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Skills: Python, Java/JavaScript, HTML/CSS, MATLAB, NX, Creo, LaTeX, MS Project
Projects: NASA Micro-G Design Team, AIAA Solar Array Design Competition