Emily Williams

emilyjw2@illinois.edu · emilyjwilliams.github.io · 815-341-4058

Education

University of Illinois at Urbana-Champaign   **May 2021**
B.S. 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
- Leading procedural development processes for thermal vacuum and vibrational testing for   Summer 2019
  monofilament vaporization propulsion thruster package

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

CS 101: Introduction to Programming for Engineers and Scientists
Course Assistant   Fall 2018 - Present
- Supervising and guiding 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, Full-Stack Developer   Fall 2018 - Present
- Using HTML/CSS and JavaScript to develop personal and professional websites 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**
President   Spring 2019 - 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
- Developing software to display pass trends and visual data onscreen through mission
  control accessible webpages using HTML/CSS

Structural Test Engineer   Fall 2017 - Fall 2018
- Developed cumulative bill of materials of structural components of satellite mission by
  remodeling and dimensioning in Creo
- Restructured current satellite bus assembly model to ensure tolerances were met
- Oversaw use and experiments involving 3D printers, thermal vacuums, and soldering equipment