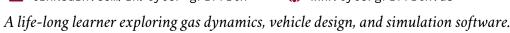
# Tyler Griffith, EIT

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#### Education 3.80 GPA

2021 – 2025 **B.S. Case Western Reserve University** Aerospace Engineering + Physics Minor

#### **Skills**

Coding MatLab, ŁTŁX, Java, R

Software SolidWorks, Ansys Fluent/Zemax, Abaqus, Mastercam, VCarve, Bambu Studio, Cura

Misc. Teaching, Leadership, Teamwork, Training, Spreadsheets, CONOPS Diagrams, Woodworking

### Experience

Teaching Assistant, CWRU, Aero/Gas Dynamics
Conducted the lecture on Conformal Mapping and the Magnus Effect as predicted in Potential Flow.
Graded assignments, held weekly office hours, and led review sessions before each exam.

President & Founder, Case Motorcycle Club

Established a funded organization for the mechanics, maintenance, and practical riding of motorbikes.

2023: Acquired a 1974 Triumph Bonneville in inoperative condition and a membership to a DIY Garage.

2025: Elected the next generation of club execs and kicked off our inaugural Car & Bike Show.

Supplemental Instructor, Physics Department, CWRU

Delivered two 90-minute small group sessions each week for Electricity & Magnetism and Modern Physics.

Taught the course material in an individually tailored format with original worksheets and study guides.

Fabrication Technician, Sears Think[box], CWRU

Trained users on the machinery on the fabrication floor of the university maker-space. Helped users with personal and academic projects. Performed regular maintenance in the machine shop.

Research Assistant, CWRU

Collaborated with STEMpower to develop curricula and lab equipment for schools in Sub-Saharan Africa.

Key Achievement: Pedagogical bio-mechanical arm and leg models to interactively demonstrate the principles of forces and moments in the context of how we efficiently actuate our own bodies.

## **Key Academic Projects**

Design of Crewed Mission to Deimos, Aerodesign Capstone, CWRU

Led the design, analysis, and presentation of the proposed interplanetary nuclear thermal rocket engine system.

Created integrated trade studies. Produced trajectory maps, systems CONOPS, and animations for the team.

Contributed heavily to the ideation, conceptual sketching, and team dynamics of this 14-member project.

Flow Generation & Control Research, Senior Project, CWRU

Designed and prototyped two controlled airflow devices for input to reedless wind instruments.

## Certificates, Awards, & Memberships

The Robert and Leona Garwin Prize to a student who has demonstrated theoretical scientific ability with experimental competence and inventive talent

2022-Present CSWA Certified SOLIDWORKS Associate in Mechanical Design, 3DEXPERIENCE

2024-Present CSWP Certified SOLIDWORKS Professional in Mechanical Design, 3DEXPERIENCE

2024-Present **Tau Beta Pi,** Engineering Honors Society

2021-2025 **Dean's High Honors**, CWRU Dean's List

2021 Emerging Leaders Program Graduate, CWRU Emerging Leaders Program