

# Caroline E. Walker, EIT

## Address:

7586 Bradfordville Road  
Tallahassee, FL 32309  
(850) 228-3335 (*work*)  
(888) 249-9226 (*fax*)  
<http://www.cummingsci.com/>

## Education:

**Bachelor of Science**-Florida State University, Tallahassee, FL  
Mechanical Engineering, with Physics and Mathematics Minors (*Summa Cum Laude, 4.0 GPA*)

## Experience:

**Cummings Scientific, LLC**, Tallahassee, FL (*October 2021-Present*)

- Mathematical modeling of vehicular accidents and occupant kinematics.
- Computer modeling of vehicular accident and occupant kinematics.

**C-130 System Program Office**, Robins AFB, GA (*January 2019-October 2021*)

- Responsible for the design, analysis, and disposition of C-130 structural repairs across the United States Air Force C-130 fleet as a Structures Engineer.
- Served as the Lead Engineer on numerous special interest projects, as assigned by supervisory engineers.

**Delegated Engineering Authority**, Robins AFB, GA (*October 2018-January 2019*)

- Responsible for the design, analysis, and disposition of structural repairs on C-130 aircraft undergoing Programmed Depot Maintenance.

**SMART Scholarship Engineering Intern**, Robins AFB, GA (*Summers 2016, 2017, and 2018*)

- Performed various duties as a Science, Mathematics, and Research for Transformation (SMART) Scholarship Engineering Intern for three summers in the areas of Facilities Engineering, Aerospace Support Equipment Engineering, and Aerospace Structural Engineering.

**Cummings Scientific, LLC**, Tallahassee, FL (*Summer 2011, Summers 2013-2015*)

- Performed the following duties as an Engineering Intern/Assistant Project Manager:
  - Utilized FARO laser scanner hardware and software to assemble accident scenes for reconstruction analysis
  - Created 2D and 3D models for accident reconstruction
  - Summarized depositions for use in accident reconstruction analysis

## Professional Accreditations and Affiliations:

- **Licensed Engineering Intern**
- **Tau Beta Pi, the Engineering Honor Society**- Florida Eta Chapter (*President: March 2017-May 2018; Recording Secretary: March 2016-March 2017*)

Relevant Research and Testing:

**Mechanical Engineering Senior Design Project**- “The examination of Occupant and Vehicular Responses to Low Speed Rear-End Crashes” (*Team Leader, August 2017-May 2018*)

**Florida State University Undergraduate Research Assistant** (*Taira Lab, January-May 2018; Florida Center for Advanced Aero-Propulsion, January 2017-January 2018*)

Relevant Coursework:

Calculus with Analytic Geometry I/II/III, Dynamic Systems II-Vibrations and Control, Engineering Design Methods, Fluid Mechanics (with laboratory experience), General Physics A/B (with laboratory experience), Heat Transfer (with laboratory experience), Introduction to Applied Statistics, Introduction to Electrical Engineering, Linear Algebra I, Mechanical Systems I/II (with laboratory experience), Mechanics of Materials I/II (with laboratory experience), Mechatronics Laboratory, Introduction to Gas Dynamics, Network Analysis, Numerical Methods for Engineers and Scientists, Ordinary Differential Equations, and Partial Differential Equations

Honors and Awards:

- C-130 Hercules Division Small Team of the Quarter (*Team Member, 2020 Q4*)
- Mobility and Training Aircraft Directorate Civilian Quarterly Award Winner (*2019 Q3*)
- C-130 Hercules Division Civilian Quarterly Award Winner (*2019 Q3*)
- Science Mathematics and Research for Transformation (SMART) Scholarship recipient (*2015*)