

# CRISTINA CUESTA BRET

+1 (352) 278-7527 | cristinacuestabret@gmail.com | Gainesville, FL, USA | linkedin.com/in/cristinacuestabret/

## EDUCATION

---

### Bachelor of Science in Mechanical Engineering

University of Florida, Gainesville, FL

August 2021 - May 2026

Major GPA: 3.74

### Certificate in Artificial Intelligence Fundamentals and Applications

University of Florida, Gainesville, FL

August 2021 - May 2026

## SKILLS

---

**Software Skills:** SolidWorks, MATLAB, Python, Microsoft Office, Fusion 360, PDM system

**Technical Skills:** CAD, manufacturing operations, mill, lathe, mechanical design, programming, technical writing

**Certifications:** SolidWorks, CNC Machining Training Program, Cambridge Proficiency in English (CPE)

**Soft Skills and Languages:** problem-solving, innovative, communicative, Spanish (Native), English (Fluent)

**Relevant Coursework:** fluid mechanics, controls and dynamics, thermodynamics, mechanical design, mechanics of materials

## PROFESSIONAL EXPERIENCE

---

### Mechanics of Materials Laboratory Teaching Assistant

University of Florida

Gainesville, FL, USA

January 2025 – Present

- Analyzed and provided detailed feedback on over 20 student lab reports, enhancing engineering report writing skills and technical understanding.
- Facilitated engaging office hours, addressing student queries regarding mechanics of materials topics and experiments, and fostering a supportive learning environment for engineering report writing.

### Elements of Electrical Engineering Teaching Assistant

University of Florida

Gainesville, FL, USA

August 2023 – December 2024

- Evaluated +45 student assignments providing detailed feedback to enhance understanding of electrical engineering concepts and improve circuit design skills.
- Facilitated engaging office hours, addressing student queries regarding lab experiments using a strain gauge and LabVIEW, as well as fostering a supportive learning environment for engineering report writing.

### Undergraduate Research Intern

Universitat de Lleida

Lleida, Spain

May 2023 - July 2023

- Engineered a sophisticated solar management algorithm aimed at optimizing the allocation of Direct Normal Irradiance (DNI) resources.
- Designed the algorithm to dynamically adjust to real-time demands and boundary conditions, providing accurate forecasts of electrical power output from solar irradiance.
- Translated an initial MATLAB codebase into Python, showcasing adaptability and proficiency in multiple programming languages, enhancing project accessibility and collaboration.
- Optimized and expanded the Python code to support various receiver sizes and electrical configurations of photovoltaic (PV) cells, improving the tool's versatility and performance.

## PROJECTS & OUTSIDE EXPERIENCE

---

### Solar Gators – Design Team

Chassis and Auxiliary Engineer

Gainesville, FL, USA

January 2023 - Present

- Collaborated on research, design, and manufacturing processes for a solar electric vehicle.
- Assisted in hands-on tasks, including carbon fiber and resin wet layups, contributing to manufacturing.
- Designed an actuator release body latch system to keep the top body attached to the chassis.
- Designing and manufacturing the canopy hinge for the car.

### University of Florida Club Tennis

Social Media Chair and Member

Gainesville, FL, USA

August 2021 - Present

- Spearheaded the management and operation of Instagram and Facebook accounts for the club from May 2022 to May 2024.
- Successfully redesigned the Instagram page, optimizing its visual appeal and user engagement.
- Secured a sponsorship deal for club apparel showcasing strong negotiation and partnership-building skills.
- Qualified for Nationals in 2022, 2023, 2024, and 2025. Won Florida Sectionals 2024.