

Jeremy Macedo

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EDUCATION

University of Florida- Herbert Wertheim College of Engineering – Gainesville

Expected May 2026

Bachelor's in Electrical Engineering

GPA: 3.37

EXPERIENCE

Computational Image Analysis Platform (CIMAP)

March 2024

Intern & Research

Gainesville, FL

- Participated in the Human BioMolecular Atlas Program (HuBMAP) at the University of Florida, applying electrical engineering and AI/ML principles to enhance the mapping of human cellular structures and analysis of spatial omics data.
- Enhanced technical skills in software development and data integration, supporting the integration of multi-scale, multi-omics data into a comprehensive atlas to advance understanding of cell and tissue organization's impact on health.
- Developed computational tools and imaging technologies, contributing to innovative solutions for large-scale digital microscopy and the fusion of high-dimensional, multi-omics data, leveraging skills in signal processing and data analysis.

Machine Intelligence Lab at UF

January 2024-Present

Researcher

Gainesville, FL

- Developed Printed Circuit Boards (PCBs) control and navigation systems for autonomous underwater vehicles and submarines, enhancing durability and efficiency in marine environments.
- Research in autonomous vehicle systems, including underwater (AUVs), surface (ASVs), land, and air vehicles (AAVs, quadcopters, MAVs), employing advanced computational intelligence and neural network methodologies.

Critical Conversations: Systemic and Agentic Empowerment of Doctoral Students

September 2023-Present

Researcher

Gainesville, FL

- Assist in interdisciplinary data collection and analysis for an NSF-funded grant focusing on the professional formation of engineering doctoral students and faculty advisors.
- Acquired IRB clearance, ensuring ethical standards were upheld when interacting with human subjects' data.
- Analyzed both qualitative and quantitative research methodologies, ensuring comprehensive results.

Raytheon Technologies Future Ready Engineers Program

June 2021-July 2021

Intern

West Palm Beach, FL

- Adapted a 4-week, 80-hour compensated virtual experience during the summer, strengthening practical skills and expanding theoretical knowledge in STEM disciplines.
- Developed connections with a community of STEM professionals, receiving guidance, insights, and mentorship to understand industry trends and best practices.
- Explored ideas with diverse cohort of peers, sharing insights and collaboration in discussions, projects, and activities.

INVOLVEMENT

Promise Program at UF

June 2022-Present

Treasurer

- Secured sponsorships and formed strategic partnerships to enhance technical workshops, seminars, and hands-on AI projects, advancing AI awareness and equipping students with practical AI skills and knowledge.

Southern Scholarship Foundation (SSF) at UF

January 2023-Present

Ambassador

Gainesville, FL

- Generated a vibrant and inclusive community by organizing a variety of engaging activities and events throughout the year.
- Expanded SSF by tabling in Santa Fe college campus & nearby high schools.

Vice-President

- Manage 13 residents to maintain a clean environment while stocking cleaning items.
- Retrieve sensitive documents and deliver to their corresponding owner.

Society of Hispanic Professional Engineers at UF

January 2023-Present

First Year Leadership Program (FYLP) & MentorSHPE program

Gainesville, FL

- Selected to be a part of a cohort of 40 students to enhance leadership skills through a series of developmental workshops, professional preparation, and social gatherings.
- Participated in MentorSHPE program and was paired with a mentor to receive advice on major, professional networking, interviews, and navigating an undergraduate career.

SKILLS

Languages: Spanish (Native), English (Fluent), French (Intermediate)

Certifications: SolidWorks, Autodesk Inventor, Autodesk Revit, AutoCAD, Word 2016, Excel 2016, PowerPoint 2016, Photoshop 2015, Illustrator 2015, Service and Food Industry

Software: MATLAB, Altium, Python, Java, HTML, C++

Awards: HSF Scholar, Promise Scholar, IB DP Scholar, Adelante Caiman scholarship, Southern Scholarship Foundation