

# Dany Rashwan

(210) 748-5686 | [dannirash@outlook.com](mailto:dannirash@outlook.com) | [danyrashwan.com](http://danyrashwan.com) | [linkedin.com/in/dany-rashwan](https://linkedin.com/in/dany-rashwan)

## EDUCATION

**Computer Engineering B.S.** Dec 2024  
University of Florida, Gainesville, FL

**Computer Engineering A.A.** May 2020  
Santa Fe College, Gainesville, FL

## SKILLS

**Programming:** C++/C/C# • Python • ROS • Embedded C • Java • Node.js • Flask • MATLAB • AWS • VHDL • JavaScript • SQL  
**Tools:** Gazebo • SLAM • Nav2 • OpenVINO • OpenCV • GitHub • µChip Studio • Quartus • Altium Designer • SolidWorks  
**Knowledge:** Robotics • Autonomy • AI/ML • Digital Logic • Microprocessors • Signals & Systems • OS • Data Structures & Algorithms

## EXPERIENCE

**Autonomous Systems Engineer** Jan 2025 – Present  
Rovex Technologies Corporation, Gainesville, Florida, United States

- Contribute to the conceptual design and assembly of an autonomous robotic system in the healthcare space.
- Implement autonomy software while maintaining detailed technical documentation and high coding standards.
- Collaborate on testing and regulatory preparation efforts, ensuring thorough documentation and compliance.

**Robotics Engineer Researcher** May 2024 – Aug 2024  
Computer Engineering Undergraduate Research, University of Florida, Gainesville, Florida, United States

- Developed custom ROS packages for robot control and navigation, and managed GitHub repositories.
- Implemented SLAM algorithms with Extended Kalman Filter in Gazebo simulations to improve robot localization accuracy.
- Collaborated on system architecture design and presented research findings to faculty.

**Machine Learning Engineer Intern** May 2023 – Aug 2023  
Flapmax, Austin, Texas, United States, Remote

- Developed a machine learning model with 95% accuracy for tumor detection in MRI scans.
- Improved model performance and privacy through Federated Learning (FL).
- Achieved a 4x faster inference runtime using OpenVINO compared to TensorFlow.

**Account Specialist** Nov 2020 – Jun 2021  
UF Help Desk, University of Florida, Gainesville, Florida, United States

- Provided support to students, faculty, and staff for account, technical, and end-computing issues.
- Managed communication and directory information for 200+ staff members.
- Maintained a ticketing system, efficiently recording, assigning, and resolving 100+ tickets per week.

**Math Tutor** Feb 2019 – May 2020  
Math Studio, Santa Fe College, Gainesville, Florida, United States

- Tutored 200+ students in Intermediate Algebra, College Algebra, Pre-Calculus, Calculus 1, 2, and 3.
- Assisted instructors with exam monitoring and classroom activities.
- Performed additional administrative tasks to support the department.

## PROJECTS

**Autonomous Hospital Transport Robot** Jan 2024 – Dec 2024  
CEN4908C Comp Engr Design, University of Florida

- An autonomous robot designed to transport goods within a hospital.  
**Tools Used:** ROS2, Python, Gazebo, SolidWorks, SLAM, Rviz, LiDAR, Camera, Jetson Orin Nano

**Mood Music** Sep 2023 – Nov 2023  
CEN4721 Human-Comp Interact, University of Florida, [github.com/dannirash/Mood-Music](https://github.com/dannirash/Mood-Music)

- A website that suggests a Spotify playlist based on user's detected or selected mood.  
**Tools Used:** OpenCV, Flask, Python, Spotify API, HTML/CSS, JavaScript

## VOLUNTEER

**Council Member** Jan 2023 – Dec 2024  
International Center Council, University of Florida, Gainesville, FL, United States

- Co-founded the council with Dean Marta Wayne to advocate for 1,000+ international students.
- Provided strategic insights that shaped innovative programs supporting international students at UF.

**Marketing Director** Aug 2020 – Jun 2021  
Village Mentors UF Chapter, University of Florida, Gainesville, FL, United States

- Provided underprivileged African children virtual mentoring, ceremonies, and tutoring.
- Coordinated outreach efforts to secure funding and resources for educational programs.

## CERTIFICATIONS

Dassault Systèmes Associate Mechanical Design Aug 2020  
CRLA Certified Math Tutor Aug 2019