

Dany Rashwan

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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

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.

Software Engineer Intern May 2022 – Aug 2022
Snark Health, Nairobi, Kenya, Remote

- Deployed K-means clustering algorithm to enhance Doctor-Patient relationship, overseen by Flapmax.
- Conducted testing, development, and validation of a machine learning model using healthcare data.
- Presented the project to prominent AI industry leaders at the FAI Summit 2022.

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

- 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