

Tatum M Kelley

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Education

Embry-Riddle Aeronautical University

Bachelors: Computer Science

Focus: Cyber-Security

May 2027

South Umpqua High School, Myrtle Creek, Oregon

September 2019 - June 2023

Project Experience

Autonomous Maritime Robotics Association- RoboSub

September 2023-Present

- Member of the RoboSub team.
 - Develop software for a fully autonomous underwater vehicle. (ROS 2, Python)
- Member of the support team.
 - Draft and design aspects of the technical portion of the competition. This includes website design, social media management, and introduction video.

EGR 101 Stage 1 – Autonomous Mini-Ground Vehicle Development and Evaluation

Fall 2023 (For all)

- Description: Stage 1 included the design, development, and evaluation of an autonomous mini-ground vehicle, which evaluation results were reported along with required modifications.
- Quality Assurance Engineer – Designed and implemented verification & Validation of team solution.
 - Ran trials to test the vehicle for errors and participated in the construction of the mini-ground vehicle.

EGR 101 Stage 2 - Autonomous Mini-Ground Vehicle Deployment with IR Sensor Based Navigation

- Description: Stage 2 included the modification and testing of established autonomous mini-ground vehicle to utilize IR sensor-based corrections to maintain trajectory while navigating across a terrain.
- Team Leader - Lead a team of 4 members.
 - Managed communication between team and was focal point of communication between sub-teams

EGR 101 Stage 3 - Autonomous Mini-Ground Vehicle Deployment and Modification Through Unknown Terrain

- Description: Stage 3 required the modification and testing of established autonomous mini-ground vehicle to navigation a maze while detecting and avoiding objects utilizing ultrasonic based sensors.
- Electric Engineer - Implemented team solution design.
 - Utilized voltage, amperage, optical measuring devices and soldering equipment to construction device.

Work Experience

Access Control, Embry-Riddle Aeronautical University

September 2023-Present

- Provide customer service for students, faculty, and staff with issuing campus IDs and building access.
- Complete technical repairs to the card system and card printer

Activities

Society of Women Engineers

September 2023 - Present

- Offers networking opportunities and support to women receiving an education in engineering.

Autonomous Maritime Robotics Association

September 2023 - Present

- Currently a part of the RoboSub team
 - Developing software for autonomous underwater vehicle.

Skills

Software- ROS 2 (Intro level)

Coding Languages- Java (Intro level), C (Intro level)

Achievements

Dean's List- Embry-Riddle Aeronautical University.

Fall 2023

Presidential Scholarship- Embry-Riddle Aeronautical University.

2023

Woman of Excellence Scholarship- Embry-Riddle Aeronautical University

2023

Volunteer Work/Community Service

Alpha Xi Delta-Theta Omicron

November 2023 - Present

- Wrote encouraging letters to graduating teens and families who are a part of the foster care system.