Emily K Coello

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Education

Bachelor of Science in Mechanical Engineering August 2022 – present
Embry-Riddle Aeronautical University Daytona Beach, United States
GPA: 3.65

Professional Experience

Teaching Assistant January 2024 – present
Engineering Fundamentals Department
- Helping professors prepare resources to engage students and deliver effective lectures
- Ability to adapt to different learning styles and needs, and to be flexible with students and professors

Engineering Sciences Tutor January 2024 – present
Academic Advancement Center
- Knowledge of different teaching methodologies and strategies
- Understanding of different learning styles and patience with students
- Strong interpersonal and communication skills, including active listening
- High knowledge in the following subjects: CATIA, MATLAB, Statics, Dynamics, Solid Mechanics, and Thermodynamics

Organizations

Autonomous Maritime Robotics Association August 2023 – present
Chief Operating Officer
- Execute strategic objective as provided by the Chief Executive Officer
- Supervise operational personal and support each team in their delegated tasks

Autonomous Maritime Robotics Association February 2023 – July 2023
Chief of Staff
- Direction of the marketing, logistics, and training departments of the organization
- Creative director that supports staff in creating and designing reports, research, websites, and presentations

Projects

Project Hammerhead September 2023 – present
AUVSI RoboSub Competition Robot
- Development of the program and calculations the proportional integral derivative (PID) controller systems
- Website development and design

Project MAKO September 2023 – present
Mate ROV Competition Robot
- Create, design, and build a remotely operated submersible that simulates tasks used for the restoration of ocean ecosystems, biodiversity, and unlocking ocean-based solutions to climate change
- Development of robot operating system (ROS) program used for PID controllers

Project Nautilus September 2022 – August 2023

AUVSI RoboSub Competition Robot

- Design, build, program, document, test, and compete an autonomous underwater vehicle to accomplish analogous tasks solving the challenges facing industry today
- Website development and design

Skills

MATLAB • SolidWorks • Python • C++ • Problem Solving • Leadership • Microsoft Office • Communication • TinkerCAD

Awards

Dean's List

Lehman College of Engineering

Women of Excellence Award

Lehman College of Engineering

Languages

Russian

Spanish