Tim Mascal

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Education

08/2021 — present	**Bachael of Science in Mechanical Engineering,** *Embry-Riddle Aeronautical University* ⧉ GPA: 3.9	Daytona Beach, FL

Skills

`Team Leadership` `Python` `Robot Operating System` `Communication` `Agile Scrum`
`MATLAB` `PyTorch` `Autodesk Inventor` `SolidWorks`

Professional Experience

05/2023 — 08/2023 — **Research Intern,** *Naval Surface Warefare Center, Caderock Divison* — Bethesda, MD
- Work in the Acoustic Signatures Technology Division

05/2022 — 08/2022 — **Student Researcher,** *Advanced Dynamics and Controls Lab* ⧉ — Daytona Beach, FL
- Develop neural networks for automatic satellite rendezvous

01/2021 — 08/2021 — **Electro/Mechanical Technician,** *Anton-Paar QuantaTec* — Boynton Beach, FL
- Assembly and inspect high precision analytical instruments
- Train new employees in company procedures
- Work with Engineers to develop procedures to increase quality and efficiency of assembly and quality assurance processes

Organizations

02/2022 — present — **Autonomous Maritime Robotics Association,** *President* ⧉ — Daytona Beach, FL
- Lead and train a team of 20+ undergraduate students across two projects
- Coordinate effectively with a diverse range of contacts to secure the necessary funding, equipment, venue, and expertise to ensure my team can function at their best, and accomplish the mission

12/2022 — present — **Embry-Riddle Emergency Response Team,** *Volunteer CFR* ⧉ — Daytona Beach, FL
- Assist organization crew chiefs in providing quality medical care

Projects

02/2022 — present — **Project Nautilius,** *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
- Develop Robotic Control Systems for Nautilius

09/2022 — present — **Project Sub_Optimal,** *MateROV Competition Robot*

Awards

07/2022 — **Best Design Presentation,** *AUVSI RoboSub Competition*

Dean's List X 4, *Lehman College of Engineering*