

# Ally Fugate

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Summerfield, FL

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## EDUCATION

Lake-Sumter State College

**Associate of Arts**

Area of Concentration: General Studies

Leesburg, FL

*August 2021-May 2023*

GPA: 3.8/4.0

Embry-Riddle Aeronautical University

**Bachelor of Science, Mechanical Engineering**

Area of Concentration: Robotics & Autonomous Systems

Daytona Beach, FL

*August 2023-May 2027*

GPA: 4.0/4.0

## PROJECT EXPERIENCE

- **MATE-Remote Operated Vehicle**, Autonomous Maritime Robotics Association *August 2023-Present*
  - Member of 8-person team.
  - Building a remote-controlled submarine with the equipment to monitor and protect the maritime environment.
  - Competition slated for June 2024.
- **Electronic-Human Powered Vehicle**, American Society of Mechanical Engineers *August 2023-Present*
  - Member of 11-person team.
  - Modifying an 11-speed recumbent bike with electric power to run an obstacle course through an endurance race.
  - Use of CAD programming to create the rollover protection system (RPS)
  - Competition slated for April 2024.
- **Autonomous Drawing Robot**, The Villages High School Engineering Academy *August 2023-Present*
  - Member of 2-person team.
  - Assembled aluminum robot frame, selected and installed wheels, installed electronics box, assembled code through VEXcode Block-Based Programming. The robot was able to draw pictures autonomously with VEXcode.
  - Sponsored by VEX Robotics
- **Remote-Controlled Soccer Robot**, The Villages High School Engineering Academy *August 2023-Present*
  - Member of 2-person team.
  - Assembled aluminum robot frame, selected and installed wheels, installed electronics box, programmed the controller. The robot was able to play soccer through a remote control.
  - Sponsored by VEX Robotics

## SKILLS

- **Software:** Basic knowledge of CAD and MATLAB
- **Office Software:** Microsoft Office
- **Languages:** English (native), Spanish (basic)

## INVOLVEMENT

- Autonomous Maritime Robotics Association, Member *August 2023-Present*
- American Society of Mechanical Engineers, Member *August 2023-Present*

## AWARDS

- ERAU Presidential Scholarship (4-Year Award)
- ERAU Women of Excellence Scholarship (4-Year Award)
- ERAU Board of Trustees Award (4-Year Award)