Savannah Luney

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   Expected May 2025
- Candidate for Bachelor of Science in Mechanical Engineering
- Minor in Spanish
- GPA: 4.0
- Georgia Tech Europe Program (Spring '22)
- Spanish Language Business and Technology Program (Summer '23)

EXPERIENCE

Operations Engineering Co-op: Gulfstream Aerospace, Savannah, GA   Summer '22, Spring '23, Spring '24
- Addressed critical safety issues concerning floorboard installation through inventory and process evaluation
- Developed universal shopaid for locating power supply units referencing aircraft frame saving 15 minutes per unit
- Evaluated GPS testing system to expand coverage to dual line test station aircraft saving $25,000
- Analyzed wing to fuselage joining process using AutoCAD to evaluate production layout options

Thermodynamics Grader: Georgia Tech, Atlanta, GA   Fall '22
- Held weekly office hours to address students' questions and provide academic support
- Provided constructive feedback on 600 homework assignments

SKILLS

Mechanical:	Heat Transfer, Fluid Mechanics, Thermodynamics, Dynamics, Statics
Design/Programming:	Solidworks, CATIA, AutoCAD, Inkscape, MATLAB, Arduino
Fabrication:	Laser Cutting, 3D Printing, Lathe, Waterjet
Languages:	Spanish (Full Professional Proficiency)

PROJECTS

GT Motorsports, Atlanta, GA   Fall '20, Fall '22, Spring '23
- Used 3D sketching in Solidworks to design brake line system
- Collaborated with other subsystem engineers to ensure continuity between design elements
- Presented at design reviews to team of 50 members
- Assisted in parts fabrication and machining using CNC machine, waterjet, and lathe

Experimental Flight, Atlanta, GA   Aug 2021 - Dec 2021
- Worked with a team of engineers to solve design challenges and develop CAD models
- Collaborated with different subsystem teams to identify design challenges
- Completed rapid prototyping with 3D printing to test out propeller guards

Creative Decisions and Design, Atlanta, GA   Aug 2021 - Dec 2021
- Used House of Quality, Specification Sheet, and Function Tree to evaluate design solutions
- Programmed an Arduino to activate a solenoid to release objects based on ultrasonic sensor timing data
- Designed a motor-spool system to expand a telescoping tube device to raise an object to a specified height
- Designed CAD models to visualize solution concepts and test design feasibility
- Completed rapid prototyping and fabrication using 3D printing, laser cutting, and power tools
- Competed in a final competition involving a design review presentation and robot performance evaluation

Grand Challenges Program, Atlanta, GA   Aug 2020 - May 2021
- Researched global issues & tackled an open-ended problem space: food loss and waste in the US
- Worked with local food suppliers (i.e. Royal Food Services) to better understand and discuss solutions

LEADERSHIP

Yellow Jacket Marching Band, Colorguard Captain   Aug 2021 - Present
- Organize and lead 100+ hours of practice per season to facilitate choreographic instruction
- Work individually with struggling members to improve weaknesses
- 3 years as Captain

Kappa Kappa Psi, Honorary Band Service Fraternity   Aug 2022 - Present
- Complete service projects to promote the welfare and success of the GT band programs

The Wesley Foundation at Georgia Tech, Hospitality Coordinator   Nov 2020 - Dec 2021
- Welcomed new church members and coordinated with leadership team to plan new initiatives