

# Lucia Weiner

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## Education

### Bachelor of Science in Industrial and Systems Engineering, Minor in Computer Science

December 2027

University of Florida | Gainesville, FL

GPA: 3.97/4.0

### Study Abroad - Physics 2 and Engineering Art

May 2024 – July 2024

Université Catholique de Lille | Lille, France

## Job Experience

### Robotics Academy Program Assistant

June 2023 – July 2023

University of Texas at Austin | Austin, TX

- Taught a C++ programming curriculum targeting high school students for the Department of Computer Science Robotics Academies
- Developed interactive robotics simulations in C++ using the Arduino IDE and orchestrated hands-on robotics programming workshops, increasing learning opportunities and accommodating diverse learning styles for 100 individuals

## Project Experience

### Solar Gators Racing Team

August 2024 – Present

University of Florida | Gainesville, FL

- Developed and implemented algorithms to process SVG files into curvature sampling for physics-based modeling to determine optimal speeds around a track to optimize car battery
- Applied computational geometry techniques to interpret and render complex curve data

### Post Grad Ponderin

November 2024 – Present

University of Florida | Gainesville, FL

- Designed and developed an interactive decision-support tool to identify optimal U.S. counties for users to reside in based on user-ranked criteria (e.g., poverty, education, income), utilizing advanced sorting algorithms and data parsing techniques
- Collaborated in a team environment using GitHub for version control, enhancing workflow efficiency and contributing to the implementation of features using SFML and SVG parsing

### Minesweeper Game

April 2024

University of Florida | Gainesville, FL

- Developed a functional Minesweeper game using C++ and the SFML library, implementing core game mechanics and a user-friendly interface
- Utilized object-oriented programming principles to ensure maintainable code, improving the game's long-term functionality

### Plant Carousel

November 2023 – December 2023

University of Florida | Gainesville, FL

- Conceptualized and developed a rotating plant carousel system using Arduino and C++ to ensure plants receive uniform sunlight exposure, promoting optimal plant growth and health
- Conducted iterative prototyping, troubleshooting hardware and software to achieve optimal performance

## Involvement

### Institute of Industrial & Systems Engineers Mentee

August 2024 - Present

IISE, University of Florida | Gainesville, FL

- Participating in the IISE mentorship program to enhance career development and foster student connection

### Women in Computer Science and Engineering Club Mentor

August 2023 - Present

WiCSE, University of Florida | Gainesville, FL

- Serving as a mentor, offering academic and personal support for a smooth transition to university life

## Skills

**Programming Skills:** Java, Python, C++

**Language:** French (limited proficiency)