




# AZALEA SHILLINGTON

-  (682) 252-3424
-  azaleahazel@gmail.com
-  <https://azaleash.github.io/>

## Education

### University of Illinois Urbana-Champaign

Physics (B.S.) and Electrical Engineering (B.S.)

2025 - 2029

### Sycamore High School

Graduated Summa Cum Laude, Top 5% of class, GPA 4.45 (weighted)

2021 - 2025

## Skills

**Technical:** Python, Data Analysis, Computational Modeling, Onshape

**Soft Skills:** Team Leadership, Project Management, Public Speaking, Academic Writing

## Awards

- **Best Oral Presentation in Physical Sciences - National Research Centre of Egypt (Dec 2024)** *Awarded for presentation on Solar Coronal Heating Mechanisms*
- **Sycamore Robotics Student of the Year (2024 & 2025)**
- **Dean's List Semifinalist Award - FIRST Inspires (Feb 2024)**

## Languages

English & French

Aspiring Astronomical Engineer  
Freshman at University of Illinois

## Profile

Dual-discipline leader in electrical engineering and astrophysics with a passion for turning abstract ideas into tangible, high-impact results. Experienced in building and guiding effective teams to solve complex engineering and scientific challenges.

## Experience

May  
2025

-

Aug  
2025

### YMCA Greater Dayton

#### Summer Camp Program Leader

- Managed a team of fellow employees, leading multiple week-long overnight youth development programs.
- Designed and executed daily programming focused on mentorship and team-building.

Jan  
2023

-

May  
2025

### MachBusters Robotics

#### President

- Led a team of 24-29 members through the full design, build, and competition cycle for complex, competitive robotics systems.
- Directed project timelines, resource allocation, and team dynamics to achieve challenging technical objectives.

Aug  
2024

-

Jan  
2025

### Ohio State University Department of Astronomy

#### Research Mentee

- Researched coronal heating mechanisms under the guidance of Professor Sultana Nahar.
- Presented research findings in an oral presentation at ICMMS in Dahab, Egypt.

June  
2024

-

Aug  
2024

### CIERA Northwestern University

#### REACH CIERA Mentee

- Conducted research on variability in black hole X-ray binary accretion discs as part of the Research Experiences in Astronomy at CIERA program.
- Analyzed complex simulation data using Python to predict astrophysical behaviors by analyzing local frequencies.