

Lucas Flowers

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AWARDS & HONORS

Member, National Society of High School Scholars (*May 2023*)

FIRST Dean's List Semi-Finalist, Phoenix Robotics (*March 2023*)

First Robotics Competition LA Regional Winners, Phoenix Robotics, El Segundo, CA (*March 2023*)

Best Programmer, Phoenix Robotics (*May 2023, May 2024*)

Best Rookie, Phoenix Robotics (*May 2023*)

LEADERSHIP

Founder, FRC Team Epsilon (*May 2025–Present*)

- Established and organized a new robotics team focused on competitive FIRST Robotics Challenge events.
- Developed team structure and recruited members to build a dedicated competitive robotics team.
- Mentored and trained rookie members in a variety of robotics skills to prepare them for diverse roles on the team.

Control Systems Subteam Lead, FRC Dragon Robotics (*August 2024–May 2025*)

- Mentored rookies in Java WPILib programming and electrical concepts.
- Programmed autonomous and teleoperated robot modes for competition.
- Led the Control Systems team in programming and wiring the team's robot.

Treasurer, FRC Phoenix Robotics (*May 2023–May 2024*)

- Managed purchase orders and maintained the team budget to meet financial goals.

Lead Programmer, FRC Phoenix Robotics (*January 2023–May 2024*)

- Programmed the autonomous and teleoperated robot modes for competition.
- Troubleshoot and resolved programming bugs to optimize functionality.
- Served as the only programmer on the team for two consecutive years.

ACTIVITIES

Exchange Student, Central High School Global Studies (*January 2025*)

- Hosted a Japanese student for two weeks, responsible for introducing him to the Phoenix area.
- Participated in cultural exchange, living with a host family in Himeji and traveling through major cities including Hiroshima and Kyoto.

Participant in Impact Lab - Introduction to Robotics Engineering, Wentworth Institute of Technology (*July 2024*)

- Engineered robotic systems using CAD, 3D printing, and microcontroller programming for automated tasks.
- Built and tested circuits, integrating sensors and actuators to enhance robot functionality.
- Collaborated in team-based projects, from design through iterative testing, while analyzing the ethical impacts of robotics.

Graduating Member, Leadership Society of Arizona Summer Program (*July 2023*)

- Engaged in workshops focused on leadership, decision-making, and stress management.
- Collaborated with peers and mentors to develop leadership skills through hands-on learning experiences.
- Enhanced public speaking and presentation abilities, building confidence and communication skills.

2nd Degree Brown Belt, Scottsdale Martial Arts Center (*August 2014–2023*)

- Sparring weekly to develop skills and resilience.
- Placed third in the USA Karate Arizona City Championship.

- Advanced through quarterly belt tests.

Founding Member, GenYES Benchmark School (*August 2018–2020*)

- Maintained computers and technology around the school.
- Produced instructional videos on technology applications.
- Developed and maintained the school’s portal website with resources for students.

TECHNICAL SKILLS

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|--------------------------|-------|
| HTML/CSS | ★★★★★ |
| Python | ★★★★★ |
| Photoshop/Affinity Photo | ★★★★☆ |
| Java | ★★★★☆ |
| CAD (Autodesk) | ★★★★☆ |
| JavaScript | ★★★★☆ |
| Linux (Debian) | ★★★★☆ |

SOFT SKILLS

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|-------------------|
| Communication |
| Problem-solving |
| Teamwork |
| Leadership |
| Critical Thinking |
| Creative Thinking |
| Time Management |