

# Lucas Flowers

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## HONORS

**Member**, May 2023

*National Society of High School Scholars*

**Dean's List Semi-Finalist**, March 2023

*Phoenix Robotics, Phoenix, AZ*

**First Robotics Competition LA Regional Winners**, March 2023

*Phoenix Robotics, El Segundo, CA*

**Best Programmer**, May 2023

*Phoenix Robotics, Phoenix, AZ*

**Arizona Science Fair Finalist**, March 2020

*Benchmark Elementary, Phoenix, AZ*

## LEADERSHIP

**Control Systems Sub-Team Lead**, August 2024-Present

*Dragon Robotics, Phoenix, AZ*

- Mentoring rookies in programming the robot using Java WPILib.
- Programming the robot's autonomous and teleoperated modes for competition.

**Treasurer**, May 2023-May 2024

*Phoenix Robotics, Phoenix, AZ*

- Managed purchase orders and maintained the team budget to ensure the financial goals were met.

**Lead Programmer**, January 2023-May 2024

*Phoenix Robotics, Phoenix, AZ*

- Developed and programmed the robot's autonomous and teleoperated modes.
- Integrated sensors and vision processing systems for enhanced robot performance.
- Educated new members on programming techniques and robot operation.
- Troubleshooted programming bugs and resolved technical issues to optimize functionality.

**Control Systems Subteam Lead**, August 2024-May 2025

*Dragon Robotics, Phoenix, AZ*

- Instructed rookie members in programming and electrical concepts.
- Integrated and wired embedded systems onboard the robot.
- Led Control Systems team members throughout the season.

## ACTIVITIES

**Participant**, July 2024

*ImpactLab Pre-college Program - Introduction to Robotics Engineering, Wentworth Institute of Technology, Boston, MA*

- 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**, July 2023

*Leadership Society of Arizona Summer Program, Phoenix, AZ*

- Participated in workshops on leadership, decision-making, and stress management.
- Collaborated with mentors and industry experts, exploring career opportunities and networking.

- Developed a personal project applying leadership principles to real-world challenges.
- Practiced public speaking and presentation skills, enhancing confidence and communication.

## **2nd Degree Brown Belt, August 2014–2023**

*Scottsdale Martial Arts Center, Scottsdale, AZ*

- Sparred weekly to develop skills and resilience.
- Placed third in the USA Karate Arizona City Championship.
- Advanced through quarterly belt tests.

## **Founding Member, August 2018–2020**

*GenYES Benchmark School, Phoenix, AZ*

- Maintained computers and technology around the school.
- Assisted STEAM classes by teaching 3D modeling and 3D printing.
- Produced instructional videos on technology applications.
- Developed and maintained the school's portal website with resources for students.

## **CERTIFICATIONS**

[ImpactLab Pre-college Program - Introduction to Robotics Engineering](#), Wentworth Institute of Technology, July 2024

[IT Specialist - Java](#), Certiport - A Pearson VUE Business, May 2024

[IT Specialist - HTML and CSS](#), Certiport - A Pearson VUE Business, April 2024

[IT Specialist - JavaScript](#), Certiport - A Pearson VUE Business, April 2024

[IT Specialist - Python](#), Certiport - A Pearson VUE Business, March 2024

[Software and App Design Technical Skills Assessment](#), Arizona Career and Technical Education Quality Commission, March 2024

[CS50x 2023](#), EdX, Harvard University, January 2024

## **SKILLS**

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