

# Lucas Flowers

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## HONORS

**Member**, May 2023

**Dean's List Nominee**, March 2023

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

**Best Programmer**, May 2023

**National Junior Honor Society**, May 2021–2022

**Arizona Science Fair Finalist**, March 2020

*National Society of High School Scholars*

*Phoenix Robotics, Phoenix, AZ*

*Phoenix Robotics, El Segundo, CA*

*Phoenix Robotics, Phoenix, AZ*

*Explorer Middle School, Phoenix, AZ*

*Benchmark Elementary, Phoenix, AZ*

## LEADERSHIP

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

*Dragon Robotics, Phoenix, AZ*

- Mentored rookies in programming the robot using Java WPILib.
- Programmed 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 financial stability.

**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.

## 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*

- Sparring weekly to develop skills and resilience.

- Placed third in the USA Karate Arizona City Championship.
- Advanced through quarterly belt tests.

**Student Ambassador**, August 2022

*Explorer Middle School New Student Orientation, Phoenix, AZ*

- Led tours for incoming 7th graders.
- Spoke on a Q&A panel for new students.
- Organized get-to-know-you activities to welcome new students.

**First Clarinet**, August 2019–2022

*Honor Band, Explorer Middle School Band, Phoenix, AZ*

- Performed in exclusive honor band concerts.
- Played multiple solo parts as First Clarinet.

**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 ★★★★★☆
- Java ★★★★★☆
- Javascript ★★★★★☆
- Linux ★★★★★☆
- C ★★★★★☆
- React ★★★★★☆