

# Lucas Flowers

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## EDUCATION

**Phoenix Union Bioscience High School, Phoenix, AZ** *May 2026*

High School Diploma | Engineering-Focused Curriculum

GPA: 3.9

Relevant Coursework: Honors Engineering & Design I-II; Honors Engineering & Physics I-IV

**Phoenix Coding Academy, Phoenix, AZ** *Aug 2022 – May 2024*

Computer Science-Focused Coursework

GPA: 3.9

## TECHNICAL SKILLS

Programming: Java (WPILib), Python, C, JavaScript, HTML/CSS, SQL

Robotics & Controls: Control systems programming, autonomous & teleoperated systems, sensor/actuator integration

Design & Fabrication: Autodesk Fusion 360 (CAD), electronics wiring, prototyping, 3D printing

Systems & Tools: Linux (Debian)

## ENGINEERING EXPERIENCE

**FRC Team Epsilon (Team 11100) — Founder, President & Lead Programmer** *May 2025 – Present*

- Founded and led a new FIRST Robotics Competition team; recruited 10+ members, secured sponsorships, and established sustainable team operations
- Architected and programmed robot control systems; mentored teammates in CAD, software development, and competition strategy

**FRC Team Dragon Robotics (Team 2375) — Control Systems Subteam Lead** *Aug 2024 – May 2025*

- Led control systems development for competition robot, programming autonomous and teleoperated modes using WPILib Java
- Trained new members in programming fundamentals and electrical integration

**FRC Team Phoenix Robotics (Team 6833) — Lead Programmer & Treasurer** *Sep 2022 – May 2024*

- Served as lead programmer across two seasons, delivering reliable autonomous routines and match-ready software
- Managed a \$5K+ team budget, overseeing purchasing, tracking expenses, and supporting competition readiness

## PROJECTS & RESEARCH

**Phoenix Forge, Gateway Community College — Engineering Intern**      *Sept 2025 – May 2026*

- Completed hands-on training in metal, wood, and prototyping shops; built functional prototypes using welding, woodworking, and 3D printing for organizational and independent projects
- Assisted makerspace members with equipment use, fabrication workflows, and safety procedures

**DRIBPL, Gateway Community College — Research Intern**      *Sept 2025 – May 2026*

- Conducted engineering research and developed ISEF-style project concepts; presented work to faculty and judges

**Young Data Scientist League — Researcher**      *Sept 2025 – May 2026*

- Authored a research study examining AI and accessibility; submitted to the AERA 2026 Annual Meeting

**Makers of Change, Southwest Human Development — Finalist**      *Oct 2025*

- Developed embedded control systems for an assistive technology prototype improving accessibility for a child with disabilities
- Collaborated on a five-student engineering team representing Bioscience High School; selected as one of nine statewide finalist teams from 90+ teams across Arizona

## ADDITIONAL EXPERIENCE

**Wentworth Institute of Technology — Impact Lab (Robotics)**      *Jul 2024*

- Completed two-week, on-campus college-level robotics coursework in Boston exploring kinematics, automation, sensors, and ethical design

**Central High School Global Studies — Exchange Student (Japan)**      *Jan 2025*

- Participated in a reciprocal cultural exchange program, hosting a visiting student in Phoenix and later living with a host family in Himeji, Japan

## AWARDS & CERTIFICATIONS

FIRST Dean's List Semi-Finalist (2024)

Autodesk Fusion Certified User

Arizona Engineering Technical Skills Assessment

IT Specialist Certifications: Java, Python, JavaScript, HTML & CSS