Lucas Flowers

Phoenix, AZ | (602) 784-2043 | contact@lucasflowers.net
linkedin.com/in/lucas-flowers-phx | lucasflowers.net

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

Harvard University (edX)   *Jan 2024*

CS50x: Introduction to Computer Science

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