

# RYAN ABRAHAM

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## CONTACT

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- <https://ryanabraham.org>
- <https://github.com/chaoticthegreat>

## EDUCATION

### VALLEY CHRISTIAN HIGH SCHOOL

GPA 4.0 / 4.0  
High School Student  
2023-2027

### CHABOYA MIDDLE SCHOOL

GPA 4.0 / 4.0  
Middle School Student  
2021-2023

## SKILLS

- Python, Java, React, Svelte, C++
- Postgres, Containerization
- Machine Learning, Model training
- Robotics Vision, Robot design
- Team management
- Leadership

## VOLUNTEERING

### CODING WORKSHOPS

2024 - 100+ hrs  
Free Python For Kids  
[freepython.ryanabraham.org](https://freepython.ryanabraham.org)

### FLL/ROBOTICS MENTORING

2024-Present  
FLL Explore Teams:  
Cosmic Coders 30760  
Cosmic Builders 30705  
FLL Challenge Teams:  
Delta Rovers 57600

### TEACHERS ASSISTANT

2025  
High School International  
Space Station Program  
Junior High International Space  
Station Program

## ABOUT ME

A high school sophomore with proven skills in software development and leadership. Committed to inspiring interest in STEM fields and guiding teams toward achieving shared goals and success.

## WORK EXPERIENCE

### SOFTWARE DEVELOPER (2023-24)

#### VP OF ENGINEERING (2025-PRESENT)

WarriorBorgs FRC Team (2023-2024)

- Use programming languages such as Java, Python, Javascript
- Work on emerging vision systems for robot localization and object detection using machine learning
- Train new members on the team

### PRESIDENT/SOFTWARE LEAD

Delta Robotics (2022-Present)

- Teach new members core robotics skills and programming
- Manage the finances, logistics, and human resources of the team
- Program the tasks the robot will complete during the competition

### SOFTWARE/ELECTRICAL R&D LEAD/INSTRUCTOR

Little Sparks Robotics (2024-Present)

- Educate kids in Title 1 Schools about STEM and robotics
- Instruct kids on how to create their own robot from scratch

### VICE PRESIDENT

VCHS Software Development Club (2024-Present)

[vcsdclub.org](https://vcsdclub.org)

- Teach essential software skills such as web development and databases
- Educate students about new emerging fields such as AI and machine learning

### OFFICER

VCHS ROAR Club (2024-Present)

- Teach 3D perception, model predictive control, reinforcement learning, generative AI, and simulation and virtual reality
- Educate people to create new solutions for autonomous systems

### COFOUNDER & SOFTWARE LEAD

[SAFELOCK](https://thesafelock.org) - [thesafelock.org](https://thesafelock.org)

- Won 2<sup>nd</sup> place at SVYEP business ventures competition
- Worked on product development
- Worked on PCB design

### TEAM LEAD & STUDENT

UCSC COSMOS

- Learned about MLPs, CNNs, LSTMs, and transformers
- Worked on image classification & audio classification via torch
- Created website to host models