

# RYAN ABRAHAM

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## CONTACT



+408-332-1394



ryan.ryanabraham@gmail.com



[www.ryanabraham.org](http://www.ryanabraham.org)



<https://github.com/chaoticthegreat>

## 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.

## 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

## WORK EXPERIENCE

### SOFTWARE DEVELOPER

WarriorBorgs FRC Team (2023-Present)

- Use programming languages such as Java, Python, Javascript
- Write code that the robot will use to execute tasks
- Work on emerging vision systems for robot localization and object detection using machine learning
- Use and learn about control theory for robotics
- Work on tools for the team's operations and systems
- 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
- Work on vision and odometry used to localize the bot
- Use programming languages such as Java and Python
- Use TensorFlow for custom object detection.

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

Little Sparks Robotics (2024-Present)

- Educate kids in Title 1 Schools about STEM and robotics
- Create a curriculum for the basics of programming
- Create a curriculum for basic electrical prototyping
- Create prototype PCBs and schematics
- Instruct kids on how to create their own robot from scratch

### VICE PRESIDENT

VCHS Software Development Club (2024-Present)

- Create a curriculum to educate high school students about being a software developer
- Teach essential software skills such as web development and databases
- Educate students about new emerging fields such as AI and machine learning
- Foster a community to support one another

## SKILLS

- Team Management
- Robotics Vision
- Control Theory
- Programming
- Business Management
- Education
- Project Management
- Content Development

## VOLUNTEERING

### CODING WORKSHOPS

2024

Free Python For Kids

[freepython.ryanabraham.org](http://freepython.ryanabraham.org)

### FLL/ROBOTICS MENTORING

2024-Present

FLL Explore Teams:

Cosmic Coders 30760

Cosmic Builders 30705

FLL Challenge Teams:

Delta Rovers 57600