

RYAN ABRAHAM

CONTACT

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- <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
- Control Theory
- Content Development

VOLUNTEERING

CODING WORKSHOPS

2024 - 100+ hrs
Free Python For Kids
freepython.ryanabraham.org

FLL/ROBOTICS MENTORING

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

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

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