

# Alaric Y. Pan

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## Objective

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Electrical engineering major and physics minor with strong adaptability and versatility. Diligent and adept at working in high-pressure environments, learning new skills in programming and CAD, and cooperating in multidisciplinary and diverse teams. Experienced in rapid prototyping through MIT's Fab Lab network and Fab Academy program.

## Education

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### Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Electrical Engineering, GPA 4.00

August 2023 – Present

Expected Graduation, May 2027

### Fab Academy | Charlotte, NC

Fab Diploma

January 2022 – August 2022

Documentation: <https://fabacademy.org/2022/labs/charlotte/students/alaric-pan/>

## Skills

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**Programming:** Java, Python, C/C++, Rust, HTML, CSS, Markdown, MIPS assembly

**Hardware:** Raspberry Pi, oscilloscope, Arduino, Attiny, Greenpak logic chips

**Software:** GitHub, KiCAD, Fusion 360, Cuttle, Greenpak, Corel Draw, Aspire, Arduino IDE, VSCode

**Languages:** English (native), Chinese (conversational)

## Experience

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### Eventys Partners | Charlotte, NC

Spring 2023

#### Intern

Eventys Partners is a product launch company that handles every step from design to marketing.

- Developed Greenpak logic chip configuration for LED control.
- Created Greenpak logic chip configuration for driving a DC motor with status LED.

### Young Engineers of Today | Charlotte, NC

Summer 2023

#### Summer Camp Instructor

Young Engineers of Today is a STEM camp that educates middle to high school students in the latest STEM technology.

- Taught group of 15 4<sup>th</sup>-6<sup>th</sup> grade campers how to mod Minecraft with MCreator.
- Managed group of 10 high school campers in Wells Fargo AI camp.
- Designed and prepared materials for various summer camps.

## Projects

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### Elon Musk Tracker | MIT Center for Bits and Atoms, Fab Academy

Spring 2022

#### Student

The Elon Musk Tracker, developed in a team of 4, uses API data from ADS-B Exchange, a live flight database, to get the location of Elon Musk's private jet (or any other plane with configuration) and moves a laser pointer its location on a map with a 2D gantry.

- Documentation: <https://fabacademy.org/2022/labs/charlotte/assignments/week12a2/>
- Structured out parameter values and general structure of 2D gantry allowing for more concrete design.
- Designed wood bed for base of machine, y-axis carriage, and corner connectors and assisted design of main x-axis carriage.
- Organized Home Depot run for parts after realizing a mistake in ordering resulting in meeting the 3-week deadline.
- Wrote code to get API data and firmware to move gantry to x, y position.

## Relevant Coursework

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**Digital Systems Design:** CMOS logic design principles; Finite state machine; Single cycle datapath

## Activities

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### Robojackets | Member

Fall 2023 – Present

- Used Rust's embedded HAL framework to write firmware to drive peripherals