

## Raphael Alcober

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### Education

**Manhattan College**, Riverdale, NY

*Expected May 2027*

Bachelor of Science in **Computer Engineering**

- Dean's Honor List

**Machine Learning Research**, *Sophomore*

*February 2025 - Present*

- Committed 3-4 hours per week under Prof. Yi Wang writing code and studying adversarial attacks in a lab.
- Implemented Carlini & Wagner (C&W) and Projected Gradient Descent (PGD) Attacks, building on prior research from graduate and senior students.

**Asian Student Association**, *Secretary*

*October 2024 - Present*

- Managed Club Communication, sending emails, reminders, and announcements.
- Handled money and products during fundraisers to support club events and activities.

### Related Courses

- EECE 210 –Programming Fundamentals
- EECE 203 – Fundamental of Electrical System Analysis II
- EECE 232 – Computer Systems, Org & Design

### Technical

HTML, CSS, JavaScript, React, Python, C++, C, Git, VS Code, MatLab, PSpice Word, Excel

### Work Experience

**Ralph's Auto Tint**, *Founder*, ralphcustoms.com

*May 2023 - Present*

- Founded and operate a home-based window tinting business, servicing 100+ cars in the past year.
- Expertly installed high-quality window tint, offering 5% to 70% darkness and up to 95% heat rejection.
- Maintained excellent customer service via text and phone, ensuring professionalism and earning 5-star reviews.
- Designed a spreadsheet on Microsoft Excel to track expenses and revenue.
- Researched local/national prices for automotive window tint to compare current business objectives and goals.

**Petco**, *Sales Associate*

*August 2023 – May 2024*

- Worked the cash register and ensured a positive experience for all customers purchasing from Petco.
- Handled small animals and fish when needed and prepped enclosures for new arrivals of pets.
- Advised customers in choosing the correct products for their pets.

### Projects

**TrashBin**, *Sophomore*

- Collaborated with a group of peers in class to engineer a trashcan to open with a motion sensor through an Arduino.
- Wrote the Python script for the project.
- Assisted wiring and mechanical issues within the project.

**Light Alarm**, *Freshman*

- Wrote and compiled Python code into a Raspberry Pi that automatically turns a lamp on at 5am.
- Spliced wires on a lamp switch to replace its components with an SSR relay.
- Connected the Raspberry Pi to the SSR relay using Dupont wires.
- RPI is used to automatically turn off the lamp when activated.

### Certificates

CS50x Harvard Online Intro to Computer Engineering Course

December 2022

Harvard's intro to engineering course for freshman posted online as a 12-week online course, consisted of 10 problem sets, eight labs, and one final project.