

Alan Lee | NY, NY

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<https://www.linkedin.com/in/alan-lee-rpi/> | https://alan-lee7.github.io/Portfolio_Website/

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY

Expected Graduation 2026

BSc Dual Major: Computer Systems Engineering/Computer Science, 3.55 GPA

Awards: Dean's Honor List Fall 2022, Fall 2023, Summer 2024

The Bronx High School of Science, NY, NY

June 2022

AP Scholar

EXPERIENCE

Havas Health, NY, NY

5/22-8/22 | 5/23-8/23

IT Intern

- Imaged laptops for interns, new hires, freelancers, and employees, ensuring a smooth onboarding process
- Set up monitors and managed technological equipment across the workplace
- Performed daily tasks including electronics handling, organization, and inventory management, while offering general technical support to employees

Rensselaer Polytechnic Institute

9/22-5/23 | 9/23-8/23

Rensselaer Desktop Repair Assistant

- Imaged laptops under the RCR inventory, preparing them for students and professors as rentals or loaners, to help the teaching and learning process
- Handled the front desk by inspecting and filing repair tickets to Dell for damaged laptops
- Organized and labeled cables and storage areas, reducing clutter and improving work efficiency

EXTRACURRICULAR

Rensselaer Electric Vehicle

9/22-Present

Vice President

1/24-5/24

President

9/24-Present

- Planned and executed events that helped expand club membership and engagement
- Contributed to the development of the club's vehicle GPS systems by helping design the control systems, creating PCB layouts, and writing embedded code

Physics Facilitator, RPI

1/23-5/23

- Assisted in setting up and guiding students through in-class experiments, ensuring understanding of the topic at hand
- Aided the professor in grading assignments and conducting class demonstrations to reinforce the student's understanding

SKILLS

Technical: CAD, Coding (C, C#, C++, Java, Dafny, Swift, MIPS, HTML), Microsoft Office, Adobe Premiere Pro, Adobe Photoshop, Arduino Coding, PCB Design, Circuit Simulation

PROJECTS

Seeing Eye Robot

- Led the design and development of different systems for a robotic project
- Developed and implemented the navigation and motor control systems for seamless movement
- Contributed to a wireless connection between the robot and the phone
- Managed and led a team of 6 engineers, ensuring project milestones were completed on time

Interface PCB

- Designed and developed a two-layer PCB that integrates multiple car systems using KiCad
- Created a well-organized schematic to ensure efficient integration of multiple automotive subsystems
- Optimized the PCB layout for simplicity, easy identification of components, and their functions
- Ensured design adhered to common practices for signal integrity and component placement

Wordle Server

- Developed an application using TCP/IP protocols to handle multiple client connections and manage multiple game states
- Implemented game logic for Wordle, ensuring efficient word validation, and player input handling
- Thoroughly tested the server with multiple simulated client connections to ensure reliability

RELATED COURSEWORK

- Data Structures
- Algorithms
- Computer Communication Network
- Principles of Software
- Embedded Control
- Operating Systems
- Computer Components and Operations
- Computer Architecture, Networks, and Operating Systems
- Signals and Systems
- Engineering Probability
- Engineering Design