Alan Lee | NY, NY
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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 integrate multiple car systems using KiCad
- Created a well-organized schematic to ensure efficient integration of multiple automotive subsystems
- Optimized the PCB layout for simplicity and easy identification of components and their functions
- Ensured design adhered to best practices for signal integrity and component placement

Wordle Server
- Developed an application using TCP/IP protocols to handle multiple client connections and manage game state
- 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