LANI WANG

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Summary

Electrical and Computer Engineering student at The Cooper Union with experience developing Augmented/Virtual/Extended Reality (AR/VR/XR), Machine Learning/Artificial Intelligence (ML/AI), Body Tracking, Mobile, and Web Apps. I also have experience building and managing hackathon teams.

Education

The Cooper Union for the Advancement of Science and Art (New York, NY)
BE Electrical Engineering (Expected April 2026)

- Computer Engineering Track
- Minor in Computer Science and Economics
- Innovator Scholar

Experience

Researcher at The Cooper Union MiliLab (2022 - Current)
I am currently working on a low-cost body tracking plug-in for Unity-based game development.

➢ Skills & Technologies used: Unity Editor, C#, C++, Meta Quest VR Headset

Researcher at Franklin W. Olin College of Engineering (2021 - 2022)
I worked under the guidance of Dr. Paul Ruvolo to prototype an Android version of Clew (link to GitHub project), an indoor path-tracing navigation mobile app built for blind and visually impaired users. Original version of Clew was written in the Swift programming language and is available only on iOS.

➢ Skills & Technologies used: Flutter/Dart, Python, ARCore, Java

Project Manager at Needham High School Girls' Robotics Team #5897 (2018 - 2022)
As the project manager of the Needham High School Girls' Robotics Team (HackHers), I led the weekly meetings and project plan. As a contributing member, I also wrote Java code and provided design inputs.

➢ Skills & Technologies used: Project Management, Java

Notable Research

- An Urgency for Inclusivity: Redesigning Datasets for Improved Representation of LGBTQ+ Identity Terms in Artificial Intelligence (A.I.)" (links to presentation, paper)

Skills

- Team Management, Project Management
- HTML, CSS, Java, Flutter/Dart, Python, Google ARCore, GitHub, C, LaTeX, Unity, C#, C++, Huggingface Transformers, Google ML Kit

Hackathon Awards

- NCWIT - **2022 Massachusetts Honorable Mention** (link)
- NHacks VII - **2022 Most Creative** (link)
- Google Play Change the Game - **2021 June Design Challenge Winner** (link)
- Congressional App Challenge - **2021 1st Place in District** (link)
- MIT Blueprint - **2020 2nd Place in Beginner** (link)