

# VINCENT WU

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## EDUCATION

### The University of Texas at Austin

Aug. 2024 - December 2027

*in Electrical and Computer Engineering, Minor in Business*

*Austin, TX*

- **Selected Coursework:** Embedded Systems, Circuit Theory, Software Implementation
- **Extracurricular Activities & Leadership:** IEEE, RAS, ECLAIR

## EXPERIENCE

### iCode

April 2021- August 2023

#### *Technical Lead*

- Led a group of future innovators in competing in VEX Robotics among their peers
- Developed a summer long curriculum that condensed a year-long competition season focused on hardware engineering the robots

#### *Team Mechanical Lead and Data Analyst*

- Heavily involved in a VEX V5 Robotics team that was invited to the VEX Worlds Competition
- Executed the designs and mobility of the robot's front claw by maintaining its durability and speed
- Awarded several regional finalists, state qualifications, and worlds division Design Award

## PROJECTS

**GameOn** – [Node.js](#), [Express.js](#), [React.js](#), API, MongoDB

June 2025

#### *Co-Founder*

- Helped recreational college athletes run their sports thru simple player matchmaking
- Searches student database filtered through student schedule availability, sports chosen, and skill level
- Targeted for students with last-minute athletic plans to matchmake and get their GameOn immediately

**Connect 4** – C, TI Microcontroller

May 2025

- Implemented a Connect 4 program on a TI-MSPMO Microcontroller and a custom PCB created using C
- Created a multi-player gameplay utilizing a slidepot and an interrupt service routine to select columns, shift sprites, register player positions, and output sound using a DAC

**To Do List** – HTML, CSS, JavaScript

June 2025

- Developed a task platform to add, mark, complete, and clear tasks, allowing users to efficiently track daily goals
- Implemented persistent data storage in localStorage, ensuring user tasks remain intact across browser sessions without requiring backend infrastructure
- Planned and designed UI scalability for future enhancements include a separate date field integration to track task deadlines, improving user productivity

**Weather API App** – HTML, CSS, JavaScript, [React.js](#), API

June 2025

- Developed a simple UI platform that displays weather related icons and statistics pulled from an API key, allowing users to conveniently monitor current weather forecasts
- Enabled search flexibility with an API key that holds weather information to any city in the world
- Background image alternates to properly reflect the city's weather and time

## TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, HTML/CSS, JavaScript/TypeScript, SQL
- **Frameworks:** [React.js](#), AWS, [Node.js](#), [Express.js](#),
- **Libraries:** Numpy, Pandas
- **Certifications:** AWS Cloud Practitioner