# Andrew Min

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## Education

**University of Illinois Urbana-Champaign**                                    **2022-2025**

*B.S. Computer Engineering, Minor in Astronomy, Business*
- GPA: 4.0/4.0
- Activities/Societies: Theta Tau engineering fraternity, James Scholar honors program, ECE 120 (Introduction to Computing) course grader

## Experience

**FIRST Robotics Competition Team 846 (Lynbrook Robotics)**                    **2018-2022**

*Co-President; 2x Software Lead*
- Led ~50-person competitive high school robotics team to design, program, and manufacture 120-pound robots in fast-paced environment, managing a ~25-person technical officer team
- Developed a custom real-time robot software architecture with C++, including control systems, hardware abstraction layers, and live telemetry/logging
- Created a web application with Go/React.js to record and analyze performance data at competitions
- Designed and manufactured aluminum parts and gearboxes with Autodesk Inventor/CAM

**Payalabs**                                                                  **Summer 2021**

*Software Engineering Intern*
- Used Rust to develop features for a backend server framework utilizing Actix Web
- Developed PostgreSQL database integration and import utility tools
- Added features to the server's custom configuration file DSL interpreter

**MIT Beaver Works Summer Institute**                                         **Summer 2021**

*Student Researcher*
- Learned about flight dynamics and control theory in a project-based Autonomous Air Vehicle Racing summer course
- Programmed drones with ROS to track balls and film sports videos

**NeoPlatform, Inc**                                                          **Summer 2020**

*Software Engineering Intern*
- Developed dataset refinement applications to help analyze security camera footage using React.js and Python/PyQt

## Skills

- Languages: C++, Python, Rust, Kotlin, Java, C, Go, Swift, JS, HTML/CSS, SQL
- Other tools: Autodesk Inventor CAD/CAM, Final Cut Pro X, Linux System Admin

## Awards

- FIRST Robotics Competition (team) – Regional Winners, Championship Division Finalists, Excellence in Engineering Award, Innovation in Control Award **2022**
- FIRST Robotics Competition (individual) – Dean's List Semi-Finalist **2021**
- American Mathematics Competition – 2x Honor Roll **2020/2021**
- ACT Standardized Test - Perfect Score **2020**
- USA Computing Olympiad – Gold Division **2019**