May Wang

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EDUCATION

Cornell University, College of Engineering   **Ithaca, New York**

Bachelor of Science in Mechanical Engineering   *Expected May 2026*

Coursework: System Dynamics, Fluid Mechanics, Dynamics, Mechanical Synthesis, Statics & Mechanics, Waves & Oscillations, Materials, Differential Equations, Linear Algebra, Thermodynamics, OOP & Data Structures   GPA: 3.53

PROFESSIONAL EXPERIENCE

KM-ROBOTA   **Lausanne, Switzerland**

Robotics Engineer   *May 2025 - Aug 2025*

- Co-authored paper on robotic applications of the bimodal kinematics in lateral gecko jumps (under peer-review at Nature)
- Submitted 2 international patents on lotus root inspired 6-DOF stress sensor and hydrodynamic compliant robot caudal fin
- Rebuilt amphibious quadrupedal salamander robot with actuated spinal column, optimizing for environmental robustness
- Individually manufactured and quality controlled wireless motion capture devices for a ~$10k sports performance contract

SUMRIDGE PARTNERS AT RAYMOND JAMES   **Jersey City, NJ**

Data Engineer / Scientist   *May 2024 - Aug 2024*

- Developed and deployed real-time data processing framework to production that handles 2 million data points per hour
- Created in-house tooling and automated data ingest pipeline using pandas and SQL to process 800M historical data points
- Applied Iglewicz and Hoaglin outlier tests with time, spread, and source-specific tunings on multidimensional datasets
- Collaborated with traders to build tools using BeautifulSoup and Whisper for robust data parsing during live conferences

LEADERSHIP AND SCHOOL ACTIVITIES

ORGANIC ROBOTICS LAB   **Ithaca, NY**

Undergraduate Researcher   *Oct 2023 – Present*

- Published a paper on developing an ethanol histology sample dehydrator, cutting cost of equipment from $30,000 to $300.
- Prototyped a pneumatic-solenoid actuation system in a modular soft robotic worm to achieve agile underground movement
- Integrated force feedback and computer vision data to build accurate models that predicts soil conditions for agricultural use

CORNELL UNIVERSITY AUTONOMOUS UNDERWATER VEHICLE   **Ithaca, NY**

Mechanical Engineering Subteam   *Oct 2022 - Present*

- Developed a novel hydroacoustic communication buoy; Was responsible for all mechanical, electrical, and software design
- Engaged in multiple semester-long four-stage design reviews, coordinating interdisciplinary constraints and objectives
- Assessed and devised solutions around 50-feet of water pressure, varying outdoor lighting, and diverse aquatic environments
- Precision machined and anodized aluminum components using manual lathes and mills to team defined GD&T standards

CORNELL MAKER CLUB   **Ithaca, NY**

Training & Equipment Chair   *Jan 2023 - Present*

- Mentored new members on tool and software usage with laser cutters, FDM 3D printers, PCB mills, and CNC routers
- Procured, maintained, and repaired lab equipment and materials, maximizing the effectiveness of the club's allocated budget
- Undertook commission work for Cornell's engineering department for events, managed alumni interactions and relations
- Organized Cornell Make-a-thon and actively engaged in community outreach events within the broader engineering sphere
- Assisted grad students and faculty with rapid prototyping, ran workshops to aid undergraduate students on personal projects

COMPETITIONS AND PERSONAL PROJECTS

CORNELL MAKE-A-THON   **Ithaca, NY**

First Place, Rookie Division   *Mar 2023*

- Designed and prototyped an automated nursery for an environmental hardware hackathon in 18 hours as a solo competitor
- Solved water dispensing problems with soft robotics; modified slicer settings while printing to create waterproof vessels
- Implemented PID control in C++ with 6 environmental sensors to maintain humidity, lighting, and temperature conditions

SPECIALIZED SKILLS

Software: SOLIDWORKS (including FEA), Ansys, Python, JS, Java, C++, MATLAB, KiCAD, Photoshop and Illustrator
Skills: Manual and CNC Machining, Rapid Prototyping, PCB Design, GD&T, Mandarin (Fluent), ASL (Conversational)