Jeffrey Wang
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EDUCATION

Cornell University, College of Engineering, Ithaca, NY   **Expected May 2027**
Bachelor of Science, Mechanical Engineering
GPA: 3.9

Rye Country Day School, Rye, NY   **June 2023**
GPA: 3.9

Relevant Courses: Statics and Mechanics of Solids, Thermodynamics, Differential Equations, Probability, MATLAB

EXPERIENCES

Cornell University Unmanned Air Systems, *Airframe Engineer, Pilot*   **Oct 2023-Present**
- CUAir is a project team focused on designing and manufacturing autonomous eVTOL UAV
- Manufactured wings, tail, and fuselage using a carbon fiber and epoxy resin wet layup process
- Designed dihedral wing ribs, tail connectors, and a VTOL testing platform through iterative design review presentations maintaining design and manufacturing documentation
- Placed 1st in fixed-wings at the AUVSI SUAS international competition

VEX Robotics, *Team Captain*   **Aug 2019-Feb 2023**
- Led a team of 24 students in regional VEX robotics competitions
- Managed build sessions and physical construction of robots competing in a cooperative competition
- Earned multiple design awards and judges awards for unique position tracking system

BeHASSTic, *Volunteer Teacher*   **July 2021-Dec 2022**
- Taught weekly lessons on the basics of 3D printing, 3D Design, and current innovations within the field
- Established technology curriculum for students internationally

Peer Leadership, *Volunteer*   **Aug 2021-June 2023**
- Selected to teach a weekly "Life Skills" course to guide underclassmen in strengthening their critical thinking skills and prepare them to tackle difficult conversations and scenarios

Emergency Medical Technician (EMT-B), *Volunteer*   **June 2024-August 2024**
- Certified in NYS to perform basic life support procedures in a prehospital environment aboard an ambulance
- Stabilize life-threatening injuries on scene and transport patients to medical facilities
- Proficient in Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED) usage

RESEARCH EXPERIENCE

Shopsin Lab, NYU Langone Tisch Hospital, *Intern*   **June-Aug 2022**
- Studied genetic markers reflecting methicillin-resistant Staphylococcus aureus (MRSA) adaptation
- Connected a 55% prevalence of S. aureus gastrointestinal colonization with atopic dermatitis symptoms compared to a 10% prevalence in control samples ($p=0.01$)
- Explored automation & current technologies in both wet and dry labs

SKILLS

Fabrication: Extensive 3D printing experience, basic fabrication (sawing, drilling, sanding), composite materials layups
Software: Solidworks, Fusion 360, MATLAB, AutoCAD, Cura, Slic3r, Java, Python, Logger Pro, Excel
Languages: Chinese, Spanish
Soft Skills: Communication, Documentation, Conflict Resolution, Presentation, Adaptability, CPR & AED