

Tam (Jimmy) Tran

[U.S. Citizen]

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EDUCATION & ACADEMICS

- Princeton University Class of 2025
 - B.S.E. Candidate, Mechanical and Aerospace Engineering, GPA: (3.55)
 - Certificate in Robotics and Intelligent Systems
 - Northfield Mount Hermon School Class of 2021
 - GPA: 3.98 (unweighted)
 - Relevant coursework:
 - Engineering Dynamics, Engineering Design, Differential Equations, Thermodynamics, Mechanics of Solids, Mechanics of Fluids, Fundamentals of Materials Science
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WORK EXPERIENCE

Undergraduate Researcher - IRoM Lab

January 2023 - Present

- Successfully built a replicated hardware platform (AgIRoM) for agile vision-based autonomous flight based on UZH Robotics and Perception Groups Agilicious Platform
- Tested open-source simulation software that trains quadrotor models in a virtual environment to teach drones how to operate in real-life environments
- Interned Full-Time during Summer 2023

Assistant Workshop Engineer - Summer Intern, Seagull Models

Summer 2022

- Aided in assembling test planes and various component shipment orders for further testing by the pilot technicians
 - Gained experience working with hand tools, RC electronics, and CAD software
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EXTRA-CURRICULAR ACTIVITIES

Drone Team Lead, Princeton Robotics Club

September 2021 – Present

- **Drone team, Autonomous Quadcopter**
 - Led a small team that successfully designed and built a modular autonomous vision-based quadcopter platform with the ability to both detect 'hand gestures' picked up by an onboard camera and interpret them as commands, such as taking off.
 - Experiences gained: developing with PX4 Autopilot (open-source flight controller firmware), Raspberry Pi, OpenCV, CAD modeling, printing various hardware mounts, and integrating optical flow and LiDAR sensors into state estimation pipeline
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SKILLS & PERSONAL INTEREST

- Relevant Skills:
 - *Programming knowledge: Python, Unity (C#), MATLAB, Java, Working in Linux*
 - *Electronics: Soldering, Flight controllers (Betaflight, PX4), Raspberry Pi, Jetson Orin NX*
 - *Rapid prototyping: Laser cutting, 3D printing (Fusion 360, Creo, Onshape)*
- Interpersonal:
 - *Active Listener, Adaptable, Leadership, Proactive*
- Languages:
 - *English (fluent/native), Vietnamese (fluent/heritage), Mandarin (intermediate)*
- Personal Interests:
 - *Princeton Men's Division Ultimate Frisbee, Rock Climbing*