

# Tam (Jimmy) Tran

[U.S. Citizen]

LinkedIn: [www.linkedin.com/in/tam-jimmy-tran](https://www.linkedin.com/in/tam-jimmy-tran)

jimmytatr21@gmail.com

(+1) 781-952-4668

---

## 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
- 

## 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
- Worked with UZH's Agile Autonomy 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
- 

## 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
- 

## 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*