Tam (Jimmy) Tran

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[U.S. CItizen]

EDUCATION & ACADEMICS

- Princeton University   Class of 2025
  - B.S.E. Candidate, Mechanical and Aerospace Engineering, GPA: (3.5)
  - Certificate in Robotics and Intelligent Systems
- Relevant coursework:
  - Engineering Dynamics, Engineering Design, Mechanical Design, Differential Equations, Thermodynamics, Mechanics of Solids, Fluid Dynamics, Fundamentals of Materials Science, Automatic Control Systems, Space Flight

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WORK EXPERIENCE

Undergraduate Researcher, Intelligent Robot Motion Lab   January 2023 - Present
- Successfully built a hardware research platform (AgIRoM) for agile vision-based autonomous flight based on UZH Robotics and Perception Group's Agilicious Platform
  - The platform integrates visual-inertial odometry with depth camera mapping to provide state estimation and localization to onboard Jetson Orin NX computer
- Working in a team to develop a real-time navigation policy for autonomous flight in unknown changing environments
- *Interned Full-Time during Summer 2023*

EXTRA-CURRICULAR ACTIVITIES AND PROJECTS

Drone Team Lead, Princeton Robotics Club   September 2021 – Present
- Led a small team that successfully designed and built a modular autonomous vision-based quadcopter platform
  - Able to detect 'hand gestures' picked up by an onboard camera via computer vision algorithms and interpret them as commands, such as taking off.

Software and Electronics Lead, MAE 322 Mechanical Design Course   Fall 2023
- Worked in a team to design and manufacture a Search and Rescue Robot
  - Led the software and electronics subteam to become the first team in course history to complete the course fully autonomously
  - Aided with chassis component CAD design and physical manufacturing

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SKILLS & PERSONAL INTEREST

- Relevant Skills:
  - *Computer skills: Python, MATLAB, Simulink, ROS, Linux, PTC Creo, Fusion360, AGI STK*
  - *Electronics: Soldering, Flight Controllers (Betaflight, PX4), Raspberry Pi, Jetson Orin NX*
  - *Rapid prototyping: Laser cutting, 3D printing*
- 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*