Kathryn DiGeronimo

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EDUCATION

Tufts University   Expected May 2028

B.S. in Mechanical Engineering, Minor in Computer Science

GPA: 3.86/4.00, Dean's List all semesters

Relevant courses: Thermal Fluid Systems, Materials and Manufacturing, Mechanics, Data Structures

EXPERIENCE

Oxipital AI   Bedford, MA

Mechanical Engineering Intern   Summer 2025

- Developed electromechanical components for an automated industrial quality inspection system
- Designed, prototyped, and sourced manufacturing for two silicone camera lens caps
- Performed SolidWorks structural and thermal FEA on parts to assess durability
- Led design reviews with a cross-functional team, discussing designs and manufacturing options

MassRobotics   Boston, MA

Intern at resident startups: Boundless Robotics, Ubiros, Vision Cycle   Summers 2023-2024

- Manufactured and tested consumer-grade hydroponic and soft-gripping robots
- Optimized assembly and QC procedures to improve production efficiency and consistency
- Created new assembly and testing documentation following set formats and procedures
- Applied computer vision software and Arduino scripts to train and validate systems

ACTIVITIES

Tufts FSAE Electric Racing Team   Medford, MA

Chassis Project Lead   June 2025 - Present

- Lead a team of undergraduates to design a steel-tube chassis for a Formula SAE electric race car
- Collaborate with subsystem leads to integrate and package mechanical and electrical components
- Teach members how to use weldments and static FEA tools in OnShape and SolidWorks

Packaging Team   September 2024 - May 2025

- Packaged mechanical components within the vehicle, maximizing space efficiency and accessibility
- Designed and manufactured mounts for the low-voltage battery, chain guard, and sheet metal seat

Tufts Robotics Club   Medford, MA

Battlebots Team Member   September 2024 - May 2025

- Designed and built a 4-lb battlebot with a sheet metal exterior and servo-actuated flipper weapon
- Earned Best Craftsmanship Award among 20 teams at the Tufts Battlebot Competition

SKILLS

Programming: MATLAB, C++, Python, Java, HTML, object-oriented programming

CAD: SolidWorks, Onshape (part design, FEA, engineering drawings)

Manufacturing: 3D printing, laser-cutting, mill, lathe, water jet, band saw