Martin B. Majkut

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EDUCATION

Tufts University, Medford, MA
Master of Science in Mechanical Engineering, May 2021
Thesis: Two-Dimensional Locomotion in a Soft Foam Robot Using Weight Redistribution
FAST-TRAC Scholar

Tufts University, Medford, MA
Bachelor of Science in Mechanical Engineering, cum laude, August 2019
BEST Scholar, Frank T. Lewis Scholarship, Lloyd MacGregor Trefethen Fellow, FAST-TRAC Scholar

Tufts in Talloires, Talloires, France Summer 2017

RELEVANT COURSES

Machine Design, Mechanical Design & Fabrication, Dynamics & Vibrations, System Dynamics & Controls, Digital Control of Dynamic Systems, Robotics and Mechatronics, Optimal Control for Robotics, Numerical Methods, Heat Transfer, Fluid Mechanics, Thermal-Fluid Transport

ENGINEERING EXPERIENCE

Tufts Electric Racing Team September 2015 - Present
Co-Captain, Project Leader

- Organize and lead a team of over 20 students to design and fabricate an electric race car for the Formula Hybrid Competition, write documents and reports, schedule project due dates utilizing Gantt chart
- Lead aerodynamics and data acquisition project groups developing first aero package in team's history

Tufts Robotics Club September 2015 - Present
Mechanical Specialist, Executive Board Member

- Guide new club members and help design and troubleshoot mechanical / electrical robotics problems
- Lead group and build robots to compete in Trinity Home Fire Fighting Contest, Tufts BattleBots

Dassault Systèmes, Waltham, MA May 2019 – August 2019
Intern - Developer

- Implemented a software robot that redefined the way a reference plane is created in xDesign, moving variables from server-side to client-side thus making visualization of a new plane quicker

ADDITIONAL EXPERIENCE

STEM Ambassadors, Tufts University, Medford, MA May 2016 – May 2019
Ambassador

- Prepared and developed presentation on STEM-related topic and hands-on classroom activity
- Taught and presented at local high school classrooms of up to 30 students, at least once per semester

SKILLS

Languages: Fluent Polish, Conversational Spanish, Beginner German
Technical: Basic Machining, MIG Welding
Computer: MS Office, C++, JavaScript, Python, Arduino, LabVIEW, MATLAB, Linux, GitHub, Onshape, SolidWorks, KiCAD