Thomas Zaffiro

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EDUCATION

Georgia Institute of Technology - North Ave NW, Atlanta, GA 30332 Graduation December 2023

- Major: Aerospace Engineering
- Aerospace Engineering Honors BS/MS Program Graduation December 2024
- GT Honors Living Learning Community
- GPA: 3.92

SKILLS and COURSEWORK

MATLAB; SOLIDWORKS and GD&T; Rigid Body Statics; Technical Writing and Communications; Machining; Right To Know; Laser Safety; Lab Safety; Aerodynamics; Structural Analysis; Machine Learning; Python; TensorFlow;Swift

WORK EXPERIENCE

Georgia Tech Research Institute - Research Engineering Intern (2022-Current)
- Electro-Optical Systems Lab
- Utilizing a high throughput, combinatorial approach to synthesize arrays of ceramic compounds
- Using a thin film ion deposition chamber in tandem with various masks
- Designing, creating and testing an automatic probing device for ceramic compounds

Ben T. Zinn Combustion Laboratory - Lasers and Fluids Group (2022-Current)
- Planning and building a large scale, high pressure combustion rig
- Fabricating parts in the machine shop
- 3D modeling the rig in SolidWorks

ASDL Research - GT SMART Campus (2021)
- Designed and fabricated a pitot tube used to measure airflow in buildings
- Researched and programmed Raspberry Pis and accompanying hardware
- Evaluated data to improve energy and spatial efficiency

Kinzie Advanced Polymers - Product Development (2021)
- Developed new tote liners
- Assisted in the creation of climate control packaging
- Spearheaded the fabrication of liner prototypes

ME 1770 Engineering Graphics - SOLIDWORKS Final Project (2021)
- Used UnTiED Ideation Process to design a Georgia Tech souvenir
- Created various moving parts in SOLIDWORKS and assembled them
- Presented the final drawing and the documented design Process to the class

EXTRACURRICULAR ACTIVITIES

Georgia Tech Experimental Rocketry Club - Combustion Team Member (2022 - Current)
- Designing a thrust plate and corresponding avionic support structure

University Consortium for Applied Hypersonics - Research Contributor (2022 - Current)
- Developing and synthesizing IR-Transparent materials for hypersonic uses

Ringle - English Tutor (2022 - Current)
- Working with Korean business people to improve their conversational and formal English

Robotics - Team Builder (2016 - 2017) (2019 - 2020)
- Designed, modeled and fabricated the driver's station
- Perfected the anodization process for various parts

Horvitz YouthAbility - Active Volunteer (2019 - 2020)
- Mentored disabled and at-risk youth through sports

Look Up to Cleveland - Board Member (2018 - 2019)
- Developed solutions to modern problems facing the city of Cleveland
- Presented these solutions to various Cuyahoga County public officials