Joshua A. Zeisloft

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EDUCATION

Georgia Institute of Technology, Atlanta, GA **August 2019-Present (Graduating December 2022)**

- Bachelor of Science in Mechanical Engineering, Minoring in Robotics, Current GPA: 3.85
- Relevant Coursework: Intro to Engineering Materials, Engineering Graphics, Computing Techniques, Deformable Bodies, Heat Transfer, Creative Design, System Dynamics, Machine Design, Intro to AI, Robotics

WORK EXPERIENCE

Fractal Vise Robotic Gripper Research at Georgia Tech **May 2022-Present**

- Serve as the lead for designing and manufacturing a robotic gripper, using fractal principles, through the use of SolidWorks and 3D-printing

Engineering Intern, Safe Space Technologies, Pittsburgh, PA **June 2020-August 2020**

- Researched UV-C lamps to provide COVID relief in high traffic buildings such as schools and offices, 3D modeling with Autodesk Inventor to create new products utilizing UV-C lamps

Engineering Intern, The Proud Company, Pittsburgh, PA **June 2017-August 2019**

- Served in a vital role investigating uses for new technology, including integrating advanced machine vision (Cognex), industrial and collaborative robots (ABB, Mitsubishi, Doosan), and autonomous mobile robots (MiR)

Intern, Ramsay Corporation, Pittsburgh, PA **November 2018-May 2019**

- Wrote code for website by implementing database information and web services with SQL and JavaScript

LEADERSHIP POSITIONS

Navigators Men's Bible Study Leader **August 2021-Present**

Program Assistant, Georgia Tech Lorraine Campus, France **May 2021-August 2021**

Lead Programmer and Mentor, FIRST Tech Challenge Robotics Team #8509 **August 2013-June 2019**

Vice President, Future Business Leaders of America (FBLA) Club **September 2017-June 2019**

PROJECTS

ME Capstone Project (JPL Sample Return Gripper) **August 2022-Present**

- Currently working in a team to create a robotic gripper to pick up sample tubes on Mars to be returned to Earth, prioritizing reliability and energy efficiency by creating a unique mechanical design and pickup process

Arduino Projects **January 2016-Present**

- Implemented Arduinos for custom projects and used extensively in internships for cheap prototyping

Bipedal Robotics LIDAR Lab, Georgia Institute of Technology **January 2021-May 2022**

- Design and 3D modeling in SolidWorks for Cassie bipedal robot, visualization and coding with ROS and Rviz, manufacturing of parts from drawings using mills, lathes, CNC machines and other manufacturing tools

SKILLS

Design and Testing

- Autodesk, SolidWorks, Prototyping

Programming

- MATLAB, Java, Python, JavaScript, SQL, HTML, BASIC, C, AI & ML for Robotic Applications

Manufacturing

- 3D Printing, CNC, Manual Mill, Lathe, Soldering