Joshua A. Zeisloft

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   **August 2019-December 2022**
• Bachelor of Science in Mechanical Engineering, Minoring in Robotics, 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

Robotics Engineer, SRG Global, Covington, GA   **January 2023-Present**
• Design new robotic cells from scratch for new product launches using injection molding machines, metal stamping, FANUC robotics, PLCs and other automation devices. Create reliable processes with minimal down time for lean manufacturing methods across the company with in-house integration for other plants.
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)

PROJECTS

FANUC Clip Assembly Cell   **August 2023-January 2024**
• Designed, built, programmed and installed a press-side assembly cell for injection molded parts using a novel insertion feature and staying underbudget and reducing head count for a 3 month payback period
ME Capstone Project (JPL Sample Return Gripper)   **August 2022-December 2022**
• Worked on 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
Fractal Vise Robotic Gripper Research at Georgia Tech   **May 2022- December 2022**
• Served as the lead for designing and manufacturing a robotic gripper, using fractal principles, through the use of SolidWorks and 3D-printing, creating a working prototype
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
• SolidWorks, Autodesk, Prototyping
Programming
• FANUC TP, MATLAB, Java, Python, JavaScript, SQL, HTML, BASIC, C, AI & ML for Robotic Applications
Manufacturing
• 3D Printing, CNC, Manual Mill, Lathe, Soldering
Languages
• Japanese (beginner level), German (beginner level)