

Liam Streleckis

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EDUCATION

Georgia Institution of Technology (GT)

Atlanta, GA

Bachelor of Science in Mechanical Engineering, Minor in Industrial Design

GPA: 3.85/4.0

Relevant Coursework: Creative Decisions and Design (ME 2110), Experimental Methods (ME 3057), Deformable Bodies (COE 3001), System Dynamics (ME 3017), Dynamics of Rigid Bodies (ME 2202), Heat Transfer (ME 3345)

EXPERIENCE

UL Solutions Research Teardown Laboratory

Jan, 2026 – Aug, 2026

Mechanical Engineering Intern

- Analyzed over 1500 defective The Home Depot private brand product samples utilizing 5 Why's Analysis methodology to determine root causes of customer issues allowing for improvements on over 50 different products
- Utilized lean six sigma's DMAIC process to communicate root causes of issues directly to THD QA Engineers, leadership, and vendors and to validate the efficacy of improvements made to products
- Increased lab capabilities by aiding in designing and building a pressurized water recirculation system to allow for continuous testing of various water pumps under variable pressure settings

Structural Engineering Lab

May, 2025 – Dec, 2025

Student Researcher

- Aided graduate student researchers in various projects including ballistic test analysis, stress strain tests, Janka hardness tests and concrete form manufacturing
- Employed a multi-step design process to successfully manufacture adhesive based eCLT for munitions testing ensuring strong adhesion such that layers maintain contact after firing
- Manufactured hooked rebar beams subjected to blast loads to measure beam deflection, allowing for comparison with headed rebar concrete beams

Flower's Invention Studio (Maker's Space) at Georgia Tech

Prototyping Instructor

February 2024 – March 2025

- Trained in various subtractive manufacturing techniques learning to work with wood, metal, and synthetic materials
- Learned electronics skills honing my ability to create various AC and DC circuits on breadboards
- Developed knowledge of soldering techniques including leaded and unleaded solder, tinning, bridging, and desoldering

PROJECTS

Creative Decisions and Design

August 2024 – November 2024

Robot

- Designed and prototyped a robot that delivered and retrieved items to and from a rotating platform using Arduino and mechatronics components
- Planned team meetings across a three-month period to meet sprint deadlines while optimizing member contribution time ensuring equal involvement
- Researched and prototyped compact lift mechanisms including scissor, telescoping, and cascade lifts to achieve four times increase in height

TECHNICAL SKILLS & INTERESTS

CAD, PLM, and FEA: SolidWorks, SolidWorks PDM, ANSYS

Fabrication and Prototyping: 3D Printing, Soldering, Electronics, Band Saw, Laser Cutter, Arduino, Sandblasting

Programming: Matlab and C++

General: DMAIC Processes, Lean Six Sigma, 5 Why's Analysis, 5S, Microsoft Office

Interests: Quality Assurance, Biomechanics, Product Testing, Structural Analysis