

Liam Streleckis

lstreleckis3@gatech.edu • <https://liamstreleckis.com> • <https://www.linkedin.com/in/liam-streleckis/>

EDUCATION

Georgia Institution of Technology (Atlanta, GA) May 2027
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 (Atlanta, GA) 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 (Atlanta, GA) 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 to validate efficacy of materials in the defense industry
- 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 helping to certify missile silo storage

Flower's Invention Studio at Georgia Tech (Atlanta, GA) February 2024 – March 2025
Prototyping Instructor

- Trained in various subtractive manufacturing techniques learning to work with wood, metal, and synthetic materials and utilized knowledge to help students safely fabricate personal projects
- Practiced electronics skills honing my ability to create various AC and DC circuits on breadboards as well as in analyzing student made circuits to identify key failure points
- 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 utilized rapid prototyping to develop 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 three separate sprint deadlines while optimizing member contribution time ensuring project completion
- Researched and prototyped compact lift mechanisms including scissor, telescoping, and cascade lifts to achieve four times increase in height while maintaining stability

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, FMEA