

# Henry Lott

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## EDUCATION

**Georgia Institute of Technology** GPA: 3.58  
*Bachelor of Science in Mechanical Engineering, Minor in Public Policy* Expected Graduation: May 2028

## WORK EXPERIENCE

**Georgia Tech Research Institute, Research Security Department** Atlanta, GA  
*Research Security Student Assistant* May 2026 – Present

- Administered visitor control, personnel security reports, and sensitive records for GIT, GTRC, and GTARC
- Updated SIMS databases and couriered classified documents between secure campus and county facilities
- Assisted DCSA self-inspections and monitored security protocols for classified meetings and facility operations

**Georgia Tech Structural Engineering & Materials Lab** Atlanta, GA  
*Undergraduate Research Assistant* May 2025 – January 2026

- Supported Dr. Lauren Stewart's research studying dynamic responses of large-scale civil structures under blast load
- Fabricated steel test fixtures with heavy machinery and built wooden formwork for large concrete test specimens
- Designed and cut recycled rebar for a rigging-equipment storage rack used with overhead cranes

**Georgia Tech Mason Building Machine Shop** Atlanta, GA  
*Undergraduate Assistant* September 2025 – January 2026

- Produced custom steel parts for research applications using industrial fabrication equipment

**The Springs Cinema & Taphouse** Sandy Springs, GA  
*Employee* July 2022 – June 2023

## SKILLS & HONORS

**Technical:** SolidWorks Design Associate (CSWA), SW Visualize, Python, MATLAB, AutoCAD, Microsoft Office Suite

**Creative:** Adobe Premiere Pro Certified Professional (ACP), After Effects, Photoshop, Photography

**Fabrication:** PLA and Resin 3D Printing, Casting, Woodwork, Water Jet, Lathe, Bandsaw, Drill Press

**Awards:** GT OIE Photo Contest Winner, Published in GSPA's *Winners Circle*, North Springs High School *STAR* Student

## LEADERSHIP

**Phi Kappa Theta Fraternity, Vice President of Communications, Summer House Manager** April 2025 – Present

- Improved internal documentation with Excel automation; created Alumni Job Network Database for members
- Purchased supplies and implemented upkeep schedules to oversee the daily maintenance needs for 20 tenants

**Georgia Tech Student Foundation, Allocation & Selection Committee Member** August 2025 – May 2026

- Advised 100+ new student organizations on their GTSF funding applications through the Allocations Committee
- Managed the competitive allocation of \$50,000 from a \$2.3M endowment to 14 student organizations
- Prioritized funding for organizations with philanthropic initiatives which enhanced the GT community

**American Society of Mechanical Engineers @ GT, Volunteer Board Member** September 2025 – May 2026

- Managed mailing list, developed promotional material, and designed merchandise

## PROJECTS

**Georgia Tech MATRIX Lab IDP-RP Initiative Undergraduate Researcher** January 2026 – Present

- Studied design for manufacturing processes to develop precise, efficient prototypes for the Invention Studio

**Electrify GT Heat & Steam Systems Research Project Team Member** September 2025 – March 2026

- Analyzed and collected past data on how Georgia Tech can replace campus steam and natural-gas-based heating with a hot water system employing heat pumps or other electric heat sources
- Delivered electrification roadmap balancing funding constraints with long-term sustainability, reliability, & ROI

**Solar Steam Engine Solo Project** March 2023 – April 2023

- Engineered solar-powered steam engine prototype with a recycled Fresnel lens, achieving peak temp. of 336°F