

Jason Schwartz

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY – M.S. Mechanical Engineering – GPA: 3.96

Atlanta, Georgia

- Graduate Teaching Assistant for ME 4042: Interactive CAD and CAE

Expected May 2026

GEORGIA INSTITUTE OF TECHNOLOGY – B.S. Mechanical Engineering – GPA: 3.96

Atlanta, Georgia

- Co-Instructor for GT 1000: Freshman Seminar, Omicron Delta Kappa, Student Gov't ME Representative
- Undergraduate Emerging Leaders Advisory Board Member, President's Advisory Board Member

May 2025

INDUSTRY EXPERIENCE

Lucid Motors

Newark, California

Graduate Mechanical Design Engineering Intern

May 2025 – Aug. 2025

- Designed inverter vibration test fixtures in CATIA, aligning bolt patterns and load paths with in-car mounting geometry
- Iterated with ANSYS modal analysis ensuring resonant frequency was outside test range, improving stiffness-to-mass ratio by 30%
- Managed supplier sourcing, DFM iteration, and part fabrication/delivery, achieving cost and schedule targets

Tesla

Fremont, California

Mechanical Quality Engineering Intern

Jan. 2024 – May 2024

- Automated part quality data visualization with Microsoft VBA/Macros, reducing report generation time by 87%
- Worked cross-functionally with Berlin and Shanghai teams to drive design changes relating to Model Y cabin sealing using 8D problem solving, root cause analysis, and containment strategies, resulting in a ~50% decrease in wind/water leak rate

Ben T. Zinn Combustion Lab at Georgia Tech

Atlanta, Georgia

Undergraduate Researcher

May 2024 – Aug. 2024

- Performed data processing and ran combustion simulations using Python, MATLAB, Cantera, and NI LabVIEW
- Computerized calculation of plate area necessary to achieve choked flow, reducing time spent on manual computations by 65%

Newell Brands

Atlanta, Georgia

R&D Test Engineering Intern

May 2023 – Aug. 2023

- Analyzed large test datasets in JMP to drive process improvements, leading to 4 data-backed SOPs published in PLM system
- Developed test method utilizing Raspberry Pi, Python programming, and 80/20 parts to cycle retraction on Paper Mate pens
- Automated erasability test for Expo products via robotic arm, eliminating human variability and improving repeatability

Free Form Fibers

Saratoga Springs, New York

Machinist

May 2022 – Aug. 2022

- Fabricated parts for 3 new fiber growing machines, helping to expand company's production capabilities by 100%

ACADEMIC EXPERIENCE, LEADERSHIP, AND INVOLVEMENT

Georgia Institute of Technology

Atlanta, Georgia

Graduate Teaching Assistant – ME 4042: Interactive CAD and CAE

Aug. 2025 – Present

- Instruct 70 students in CAD and FEA, reinforcing best practices in modeling, meshing, analysis, and validation
- Oversee grading, lab facilitation, and curriculum planning for 2 sections of students

Georgia Tech Student Government Association

Atlanta, Georgia

Mechanical Engineering Representative & Internal Operations Committee Chair

Aug. 2024 – May 2025

- Engineered and implemented first-of-its-kind peer mentorship program for mechanical engineers, available to all 2,800 students
- Led a team of 7 committee members to streamline internal operations and ensure efficiency in decision-making

Georgia Institute of Technology

Atlanta, Georgia

Co-Instructor – GT 1000: Freshman Seminar

Aug. 2022 – Dec. 2024

- Coordinated communication between 4 TAs and instructor to ensure efficient course management and alignment

SKILLS AND AWARDS

CAD: Siemens NX, SolidWorks, Autodesk (Inventor, Fusion, Revit), Onshape, PTC Creo, CATIA / 3DX

FEA: Siemens NX Nastran, ANSYS (Workbench, Mechanical, HFSS)

Software: MATLAB, Python (Basic), Microsoft VBA, JMP, Windchill PLM, JIRA, Slicing (Cura, PreForm)

Manufacturing: CNC, Lathe, Mill, Bandsaw, Deburring, 3-D Printing, Laser Cutting, Water Jetting, Mechatronics, Soldering, GD&T, **Over 400 Hours of General Workshop Experience**

Awards: 7x GT Faculty Honors, 3x TA of the Year Finalist, Celebrating Student Leadership Award Recipient

Scholarship: Sterngass Theoretical Physics Scholarship, Woodruff School of Mechanical Engineering Merit Scholarship