

Austin Bradley Gies

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US Citizen

Education

GEORGIA INSTITUTE of TECHNOLOGY

Atlanta, Georgia

Bachelor of Science in Mechanical Engineering

May 2022

Minor in History

- GPA 3.95 (cumulative through Fall, 3rd Year)

Skills

Communication

- Microsoft Office, Presentations, Proposals, Public Speaking, Team Meetings, Technical Reports

Equipment and Tools

- Band Saws, Brazing, Drill Presses, Lathes, Milling Machines, Rotary Tools, Soldering Iron

Instrumentation and Measurement

- Calipers, Function Generator, Microcontrollers, Micrometer, Multimeter, Oscilloscope

Leadership

- Collaboration, Encouragement, Engagement, Facilitation, Inclusion, Leading Meetings, Listening, Openness, Trust, Vision

Manufacturing and Material

- Additive Manufacturing, Cost Benefit Analysis, Design for Manufacturing and Assembly, Material Selection, Process Selection (annealing, cold rolling, quenching), Rapid Prototyping, Subtractive Manufacturing

Mathematics

- Derivatives, Differential Equations, Eigenvalues, Eigenvectors, Fourier Series, Integrals, Laplace Transforms, Matrix Algebra, Maxima and Minima, Systems of Linear Equations

Mechanical

- Bending, Bernoulli's Equation, Buckling, Conservation Laws, Controls, Deflection, Dynamics, Energy, Feedback Controls, Finite Element Analysis, Fluid Mechanics, Frequency Response Analysis, Friction, Hooke's Law, Kinematics, Kinetics, Manufacturing, Materials, Mechanical Systems, Mechanics, Physics, Statics, Strain, Stress, Thermodynamics, Torque

Modeling and Software

- 2D and 3D Modeling, Autodesk Fusion 360, Hand Drafting, LabView, Mac, MATLAB, SolidWorks, Windows

Research Experience

Georgia Institute of Technology: Research Assistant

August 2020 to Present

- Participating in team focused on developing new engineering technologies

Work Experience

CEISM K.I.D.S. Club: Group Leader

August 2019 – Present

- Lead classroom instruction and activities for 2nd - 12th grade students in STEAM

National Student Leadership Conference: Assistant Team Advisor **June 2019 – July 2019**

- Taught science and engineering curriculum to high school students
- Assisted and led group discussions about engineering and leadership

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Leadership

Honor Advisory Council

- Vice President (3rd Year)
- Honor Week Chair – Coordinate weeklong events that advocate the Honor Code (1st, 2nd Year)

Scouts @ Georgia Tech

- Adventure Chair – Coordinate outdoor activities (1st, 2nd, 3rd Year)

Tech the Halls

- Membership Committee member -- Organization supporting the Boys and Girls Club of Atlanta (1st, 2nd, 3rd Year)

Ramblin' Reck Club

- Club tasked with maintaining the history and traditions of Georgia Tech and the Ramblin' Reck, a 1930 Ford Model A Sport Coupe
- Secretary (3rd Year)
- Football Road Trip Sub-Chair (2nd Year)
- Campus Morale Boost Committee Chair – Tasked with increasing student morale (3rd Year)
 - Leading Kindness Rocks Project initiative on campus

Georgia Tech Tour Guide (2nd, 3rd Year)

SMILE Club (3rd Year)

- Dedicated to organizing events and initiatives to boost student morale on campus

Projects

Creative Decisions and Design

- Class revolving around a group project focused on the design, building, and implementation of an autonomous robot to complete designated tasks
- Developed concept, completed plans, manufactured, built, and tested robot
- Machining with lathes, mills, and drill presses and writing and presenting technical reports

Kindness Rocks Project

- Initiated the idea across the Campus and worked with GT Administration to receive approval
- Led several different groups to message, decorate, and place hundreds of rocks across campus
- Project was featured in GT's Strategic Planning video

Ethics Video

- Selected by GT to participate in an Ethics Video which was provided to students and faculty
- Wrote script detailing views in regards to ethics

Eagle Scout Service Project

- Developed and taught STEM projects for hospice children and families
- Glenn and Melinda Adams National Eagle Scout Service Project of the Year- Bronze Eagle Award, March 24, 2017
 - Selected as one of the Top 10 Eagle Scout Service Projects in the nation- 2016

Honors and Awards

Tau Beta Pi – Georgia Alpha Chapter (2021)

- National Engineering honor society

Pi Tau Sigma – Nu Chapter (2020)

- National Mechanical Engineering honor society

Omicron Delta Kappa – Alpha Eta Circle (2020)

- National leadership honor society

The Gamma Beta Phi Society – Georgia Tech Chapter (2019)

- National honor and service society – service, scholarship, and character

Georgia Tech Alumni Scholarship Award (2018)

- Presented to a student based on academic excellence, extra-curricular activities, and leadership

Eagle Scout (2016)