
LYDIA R. MELE

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EDUCATION

Georgia Institute of Technology

Master of Science in Mechanical Engineering Expected Graduation May 2020 GPA 3.60/4.00

- Key Course Work: Heat Transfer, Manufacturing, Thermal Packaging

Bachelor of Science in Mechanical Engineering Graduated May 2019 GPA 3.83/4.00

- Key Projects: Capstone Design- Full semester design project and prototyping
 - Implements design and quality tools to address project constraints and requirements
 - Used CAD to model designs, and manufacturing processes to develop working prototypes

University of North Georgia- Dual Enrollment GPA 4.00/4.00

WORK EXPERIENCE

Angel Oak Mortgage Solutions: Operations Intern Summer 2019

- Analyzed and interpreted data to determine loan status and viability
- Compiled test samples and analyzed customer data to optimize program function

ASDL Sustainable Space Habitat Research Fall 2018-Spring 2019

- Used Simulink to develop a model of a resilient thermal network for a space habitat.

ASDL Helicopter Safety Research Fall 2018

- Created Matlab algorithms to determine obstacles in helicopter flight and safe flight operation.

Bitzer US: Design Engineering Intern Summer 2018

- Processed customer requests and created cost quotes for pressure vessel systems.
- Analyzed and calculated the design specifications for horizontal and vertical surge vessels.

Georgia Tech Lorraine- Study Abroad Campus- Resident Director Spring 2018

- Awarded Resident Director Position while studying abroad for 2nd semester Junior year.
- Responsible for student safety, conflict resolution, team building, and coordinating student activities.

Atlanta Scholars-Math and Science Tutor 2017-2018

- Worked in-home one-on-one with high school students in a variety of math and science courses.

University of North Georgia Tutoring Center 2015-2016

- As a high school student, tutored college students in courses ranging from college algebra to Calculus III. Strengthened interpersonal and time management skills, as well as math foundation.

SKILLS:

Software: Matlab, Solidworks, Java, Microsoft Office Suite

Hardware: Mill, Lathe, Drill Press, Laser-cutter, CNC equipment operation

Communications: Project management, presentations, conflict resolution, team leadership

LEADERSHIP, AWARDS, INTERESTS:

Academic Awards

- *Dean's List:* 2015, 2016
- *Presidents List:* 2016, 2017

Georgia Tech Cru Committee Member and Small Group Leader Fall 2016- Present

Georgia Tech Barbell Club President Fall 2016-Present

- In charge of coaching, recruitment, mentorship, one-on-one training to improve skills and confidence of students.

Powerlifting 2013-2019

- Eight-time National Champion for age and weight class.
- Georgia State Powerlifting Referee and certified Powerlifting Coach.