

Sara Reeves

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Education

Bachelor of Science in Biomedical Engineering, GPA 3.51 **Fall 2020**
Georgia Institute of Technology, Atlanta, Georgia *Present*
Georgia Southern University, Statesboro, Georgia *August 2016-May 2018*

Professional Experience

Intern, Lucid Scientific, Inc., Atlanta, Georgia *Intern, May 2019- August 2019*

- Worked with a group of interdisciplinary interns to complete multi-faceted tasks in electronics, embedded firmware, industrial and graphic design, business marketing, fabrication and machining.
- Focused on instrumentation, testing, and calibration to ensure the quality of the devices prior to their sale while practicing sterile technique.
- Improved technical writing and programming skills in Vim, LaTeX, Python, and MATLAB while using Linux platform.
- Researched competitor companies while targeting and connecting with potential customers.
- Gained experience in soldering on PCBs using reflow with stencils and rework with solder wire.

Intern, Midlands Prosthetics-Orthotics, Augusta, Georgia *Intern, August 2015- March 2016*

- Designed, developed and presented a custom Ankle-Foot Orthotic device to a panel of judges.
- Collaborated with professional prosthetic and orthotic technicians to best meet patient's needs.
- Worked with materials such as carbon fiber composites and thermoformable plastics.
- Used machinery such as rotary saws, sculpting tools, mills, lathes, and other machines used to design and create prosthetics and orthotics.

Campus Involvement

CODE, Georgia Institute of Technology, Atlanta, Georgia *Clinical Observational Designer, August 2019 - Present*

- Volunteering 8 hours per week at Grady Memorial Hospital, Emory University Midtown Hospital.
- Observing physicians, nurses, and patients to identify and develop solutions to various clinical issues in the Emergency Department.
- Assist the research and quality improvement efforts of clinicians from the emergency departments by collecting research data and identifying/enrolling patients in ongoing research studies.

Health Reach, Georgia Institute of Technology, Atlanta, Georgia *Volunteer Educator, August 2019 - Present*

- Volunteering weekly at local elementary schools, Ronald McDonald House, and hospitals such as Children's Hospital of Atlanta to teach math and science to hospitalized children.
- Using basic design principles and problem-based learning skills to teach complicated STEM subjects in a simplified manner.

Volunteer, Return Coordinator, Atlanta, Georgia *Volunteer, May 2019-Present*

- Work in a team of on-call volunteers to coordinate the urgent return of dogs, and cats with the Angels Among Us Pet Rescue.

Eagle Motorsports, Baja SAE, Statesboro, Georgia *Sales Member, August 2017- July 2018*

- Designed and presented a medium sized business plan to a panel of judges consisting of automotive industry professionals where I increased our team rank by 192%
- Designed, fabricated, raced, and presented a Formula and Baja style car within ten months applying knowledge and skills learned in classes.
- Cooperate with a team to design and improve the car by communicating results found in data acquisition systems to create the most efficient car.

Projects

Cable Management of EKG cables *August 2019 - Present*

- Working with two other students to design, model and prototype a cable management system for EKG cables based upon feedback from physicians and nurses.

Parkinson's Disease *January 2019- May 2019*

- Modeling, creating, and testing an at home device to measure Levodopa concentrations in a patient's blood plasma by using colorimetry, mass spectrometry and voltage.
- This will allow doctors to better identify how often a patient experiences an off period in order to optimize a patient's dosage.
- Working with a team of eight biomedical engineering students and two biomedical engineering professors.

Awards

- President's List May 2017
- Dean's List December 2016, May 2018, and May 2019