Nathan Israel Luskey

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Education

Georgia Institute of Technology | **Atlanta, GA** *August 2016 – May 2021*

- B.S. in Biomedical Engineering with minor in Industrial Design
  - Anticipated Computer Science minor in Computing & Intelligence
- Overall GPA 3.91, Major GPA: 3.87
- Stamps President's Scholar
  - Awarded to 40 members of each GT Class
  - Full cost of attendance payed plus a stipend for travel, research, etc.

Experience

Velano Vascular, San Francisco, CA
Internship

- Tentatively delayed to fall 2020 due to COVID-19

Cathaid, Atlanta, GA *January 2020 – April 2020*
Clinical Engineering Internship

- Improved product manufacturability while maintaining critical prototype design features

Ethicon Endo-Surgery, Cincinnati, OH
Design Co-op in Front End Energy *May 2019 – August 2019*

- Supported development of temperature control algorithm to improve harmonic device heat management and thermal spread

Design Co-op in Lifecycle Open Mechanical *August 2018 – December 2018*

- Improved product usability by quantifying existing linear surgical staplers' performance
- Designed and qualified testing methods and fixtures for ultrasonic weld strength for skin stapler

Georgia Tech Healthcare Robotics Lab *May 2017 – December 2017*
Undergraduate Research Assistant

- Set up 1 Degree-of-Freedom robot to automate data collection on flat samples for training an SVM

Activities

Sigma Nu

- Honor Council Member
- Academic Chair

Tech Beautification Day

- Project Coordinator
- Projects Director
- VP of Corporate Outreach

Projects

Song Classification for Running Playlists

- Current Project for CS4641: Machine Learning

BME Capstone

- Source Guard: Intraoral Dental X-Ray

Technical Strengths

Software:	Python, Java, MATLAB, Solidworks, Testworks, Minitab, LabVIEW, Arduino
Instrumentation:	CNC Mill, Laser Cutter, 3D Printer, Axial & Linear Load Machines, myDAQ
Communication:	Engineering Studies, Emails, Meetings, Public Speaking
Acquired Skills:	
Engineering:	Mechanics, Circuits, Statistics, Fluid Transport, Cell Culturing, Systems & Cellular Physiology, FDA Waterfall
CS:	Machine Learning, Object Oriented Programming, Data Structures, Algorithms, Git Protocol, CSS/HTML, LaTex, Jupyter Notebooks
ID:	Human Factors, Human-Computer Interaction, Needfinding, Sketching

Publications

"Classification of Household Materials via Spectroscopy" in IEEE Robotics and Automation Letters (RA-L)

- IEEE Robotics and Automation Society Best Paper Award in Service Robotics – Finalist ICRA '19