

# Sam Pomajevich

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Seeking to apply my experience and education to a career related to mechanical and/or aerospace engineering.

## Education

**Bachelor of Science in Physics** (May 2021) **The University of Texas at Austin** GPA: 3.58  
Computation Option

Relevant Focus Areas: Modern Physics and Thermodynamics, Thermodynamics/Statistical Mechanics, Classical Dynamics, Statics, Elements of Computer/Programming, Elements of Software Design, Intro to Engineering Design & Graphics, and Classical Electrodynamics

## Technical Skills

- Python 3 and MATLAB
- Computer-Aided Design (CAD) with SOLIDWORKS and Fusion 360
- 3D Printing: maintenance, slicing files, and other common tasks
- Manual machining and mechanical drafting

## Experience

**Research Assistant, Nanoscale Design and Manufacturing Lab - UT Austin** May 2020 - September 2020

*Design and development of novel processes and equipment for manufacturing micro and nanoscale devices and structures*

- Member of team creating a solution for minimizing the effect of thermal heat zones surrounding nano-manufacturing. Exercised skills in facilitating group discussion, persuading others, reporting information, listening attentively, and setting and meeting goals.
- Used Python and MATLAB to program an algorithm that inputs coordinates from an image and separates the edges of the shape into segments to be altered to desired lengths. This helped create an OPC (Optical Proximity Correction) for the image.

**Design Intern, re:3D - Austin, Texas**

June 2019 - August 2019

*Life-Sized Affordable and Sustainable 3D Printing*

- Designed and printed 12 models using CAD to demonstrate the capabilities of the Gigabot 3D Printer
- Performed maintenance and set-up on the Gigabot 3D Printers
- As part of an Austin startup, trusted to work independently, set goals and report results, and communicate with co-founder

## Honors, Awards, and Activities

- Texas Men's NCAA D1 Men's Swimming and Diving (2017-2021)
- NCAA D1 National Champion (2018)
- NCAA All American (4x)
- Silver Medalist: Pan American Games (2019)
- Provost Award (2018, 2019)
- University Honors (Spring 2018, Fall 2018, Spring 2019)
- CSCAA Scholar All-American (2020, 2019)
- Big 12 Commissioner's Honor Roll (Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020)