Sam Pomajevich

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Education

Bachelor of Science in Computational Physics (Graduating May 2021)   **The University of Texas at Austin**
GPA: 3.6

Relevant Coursework

- PHY 355 - Modern Physics and Thermodynamics
- PHY 369 - Thermodynamics / Statistical Mechanics
- PHY 336K - Classical Dynamics
- EM 306 – Statics
- CS 313E – Elements of Software Design

Technical Skills

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

Experience

Nanoscale Design and Manufacturing Laboratory – The University of Texas at Austin
Design and development of novel processes and equipment for manufacturing micro and nanoscale devices and structures
Undergraduate Research Assistant   May 2020 – September 2020

- Member of team creating a solution for minimizing the effect of thermal heat zones surrounding nano-manufacturing.
- 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.

re:3D – Austin, Texas
Life-Sized Affordable and Sustainable 3D Printing
Design Intern   June 2019 – August 2019

- 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

Honors, Awards, and Activities

- Texas Men's NCAA D1 Men's Swimming and Diving – 4 years
- 2018 NCAA D1 National Champion
- 4-Time All American
- Silver Medalist - 2019 Pan American Games: 200m Butterfly, 800m Free Relay
- 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)