

## JOBY MILO ANTHONY III

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jmanthony3.github.io

### EDUCATION

**Liberty University**, Lynchburg, VA

Bachelor of Science in Mechanical Engineering (Minor in Mathematics), May 2020

Overall GPA: 3.3/4.0

### RELEVANT EXPERIENCE

**Liberty University**, Lynchburg, VA

Laboratory Technician, Fall 2018 - Spring 2020

- Served as 3D Printing technician to produce parts for students' projects.
- Created printer settings and material profiles for PLA, ABS, PVA, and TPU from 1,000+ hrs of prints.

**Virginia MetalFab**, Appomattox, VA

Engineering Intern, Summer 2019

- Wrote VBA codes for SolidWorks macros to process large, sheet metal assemblies into drawings according to user-specified template to create flat-patterns, automatic dimensions, and PDF output.
- Designed and simulated custom tooling for 110-ton break to complete client's special request.

**Freelance**, VA

- Camera Operator, Winter 2013 - Spring 2019
- Assembled and operated big-body and hand-held cameras for sports, concerts, and conferences.

**Miles Architecture Group**, Maitland, FL

Intern, Summer 2016

- Visited jobs sites to document and sketch building plans to meet ADA compliance.
- Fabricated bubble décor in office foyer. Showcased at: <https://www.milesarch.com>

### PROJECTS

**Formula SAE Team - Liberty Motorsports:** Simulation and Analysis Sub-system Lead to provide computational and analytical support to design teams for various iterations of key parts: frame geometry, electrical accumulator container, and steering uprights.

**M-Number, A Novel Mixing Parameter:** Faculty directed research to describe a static mixer's ability to provide a quality of mixing against the pressure drop.

**Expandable Containment Unit:** Student-led research endeavor to create a containment unit with rigid sides to increase in volume upon necessity. Upon implementation, volume was found to increase by 100%.

Published research in undergraduate journal: <https://digitalcommons.liberty.edu/montview/vol3/iss1/1>

### RELEVANT COURSES

Senior Design Capstone

Dynamics Systems Modeling

Computer-Aided Engineering

Thermodynamics II

Mechatronics

Fluid Dynamics

### LEADERSHIP

**Laboratory Technician Supervisor**, Spring 2020

Served as supervisor to 3D Printing Team for Liberty University School of Engineering to interface with faculty, order parts and materials, submit work orders, setup training workshops, and establish policy.

### ADDITIONAL EXPERIENCE

**Research Week 2017:** Member of winning oral presentation and received \$250 cash prize and a display case of expandable containment unit in Montview Student Union (Fall 2018).

### SKILLS

**Software:** SolidWorks, SheetWorks, ANSYS, MATLAB, MakerBot, Cura, Adobe Illustrator

**Machines:** MakerBot Replicator 5<sup>th</sup> Gen, Ultimaker S5, FORTUS 250 mc, Universal Laser PLS 4.75

**Coding Experience:** MATLAB, VBA, C#, L<sup>A</sup>T<sub>E</sub>X, Python

### ACTIVITIES & HONORS

**Engineering Summer Camp**, Summer 2018 and 2019

Worked with faculty to create and teach course material for local junior high students for 1-week, project-oriented STEM intensive.