

# Andrew Bowyer

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## EDUCATION

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### Florida International University (FIU) - Honors College

Bachelor of Science in Mechanical Engineering  
Certificate in Japanese Language

Miami, FL  
Graduated Summer 2020

## WORK

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### Tesla, Inc.

Manufacturing Engineer Intern

Sparks, NV  
September 2019 - January 2020

- Fabricated a test fixture for the Model 3 inverter assembly line to preemptively diagnose and characterize anomalous equipment behavior
- Led all aspects of development for test fixture including root cause, vendor relations, equipment validation, design and usage, data engineering, and multiple stakeholder implementation strategy

### Vossen Wheels

Product Engineer Intern

Doral, FL  
January 2019 - April 2019

- Modeled automobile wheels - using SolidWorks - for fit, functionality and aesthetics while upholding organizational engineering standards
- Executed finite element analysis to decrease stresses present within the wheel to tolerable safety range and maintain structural integrity

### Project SWEET

Lead Engineer, Founder

Miami, FL  
January 2018 - September 2019

- Developed proof-of-concept using CNC, laser cutting, and 3D printing to address water transport and cleanliness in impoverished communities
- Fundraised \$4,000 and executed trip to La Guajira, Colombia to research and develop solutions for water quality issues experienced by the local indigenous tribes

### Pilot VR

Product Design Engineer

Miami, FL  
May 2016 - March 2018

- Prototyped 6 iterations of a proprietary virtual reality headset ensemble for the healthcare industry using CAD software and 3D printing technology over the course of 6 months
- Generated testing methods to evaluate each design concept and optimize 3 functional, AI-powered, headset prototypes for less than \$1,500

### StartUP FIU

Leadership Intern

Miami, FL  
January 2020 - Present

- Work alongside the program director to generate a strategy to increase student engagement, retention, and success; alternate between hands-on implementation and high-level management
- Advise on curriculum for a student-centric entrepreneurship program; teach sessions in user research, business development, and product-market fit for cohort of 30 members

## ACTIVITIES

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### Hult Prize

Regional Finalist

San Francisco, CA  
April 2018

- Achieved 95th percentile (of 300,000 global participants) in annual social entrepreneurship competition; focused on clean water technology applications for impoverished communities

### ShellHacks

Workshop Coordinator

Miami, FL  
September 2018

- Organized 20 workshops and company events for a student hackathon with over 700 attendees; each event averaged about 50 participants

## SKILLS

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Certified SolidWorks Associate  
Human-Centered Design  
Additive Manufacturing

CNC Milling/Laser Cutting  
Finite Element Analysis  
Adobe Creative Suite

Design of Experiment/Metrology  
Python (Intermediate)  
Project Management