

Shawn Dashty

Personal Information

Phone: (704) – 605 – 4683

Email: shawn.dashty@gmail.com

Academic Portfolio:

<https://webpages.uncc.edu/sdashty>

Skills

CAD:

CATIA V5, Solidworks, PTC CREO, FEA, FMEA, Draftsight, Geomagic, Engineering Drawings, Tolerance Stacking (GD&T)

Manufacturing Design

Knowledge:

Design for Manufacturing

Design for Cost

Product Design

Sheet Metal Design

Weldment Design (Slot/Tab)

Plastic Part Design

(Injection Molding, 3D Printing)

Manufacturing Exposure:

Additive Manufacturing

Laser Cutting

Machine Shop

(Mill, Lathe, Drill Press, Bandsaw)

Software/Programming

Applications:

Arduino, MATLAB, Internet of Things, Photon, LabVIEW, C++, myDAQ, HTML

Microsoft Suite

Projects

- Product Identification Rig
- Pneumatic Driven QA Mechanical Drive
- Hydraulic Powered Retractable Ladder
- Pick & Place Robot
- Machined Air Engine
- Injection Molded Raspberry Pi Case
- Reverse Engineered Action Figure
- IOT motion Detector

Education

Bachelor of Science in Mechanical Engineering

University of North Carolina at Charlotte

December 2019

Institutional Honors: Magna Cum Laude (GPA: 3.71 / 4.00)

Departmental Honors: Engineering Honors (Thesis: Additive Manufacturing)

Industry Experience

Tesla Motors, *Fremont, CA*

Jan 2020 –

NPI Manufacturing Engineer – Intern

Aug 2020

- Served as Project Engineer for Model-Y transitioning from prototype to production, assuring zero downtime on the line
- Led the coordination of 150 Model-Y trials for new part-quality validation, ensuring part availability, line readiness, and pre-requisite data obtained and consolidated
- Saved \$450,000 per year in manufacturing costs by leading Model-S/X cost reduction project
- Utilizing CATIA V5 Advanced Surfacing to design and publish mission critical Body-In-White components for Model-S/X
- Supporting issue resolution for production and assembly including root cause investigation and corrective action tracking

Curtiss-Wright, *Gastonia, NC*

Aug 2019 –

Mechanical Design Engineer - Co-op

Dec 2019

- Designed new components and machines through creation of Solidworks models, assemblies and drawings
- Operated and maintained Raise3D N2 Plus printer while supporting machine builds, troubleshooting and root cause analysis of multiple projects
- Designed a hybrid peenamatic turntable for Cummins
- Modeled and simulated a shot-peening application for General Electric

Sealed Air Corporation, *Charlotte, NC*

May 2019 –

R&D Mechanical Engineer – Intern

Aug 2019

- Designed and fabricated a washdown vision rig which reduced the cost of the company's anticipated purchased product by 80% (\$120,000 to \$24,000)
- Designed a dual-axis, pneumatic driven mechanical manipulation rig which aided in the quality assurance process for vacuum sealed bags
- Produced engineering part, subassembly, and weldment drawing specifications that were sent to manufactures for fabrication
- Coordinated robotic guarding design and integration for commercial plant located in Nebraska

Goulston Technologies, *Monroe, NC*

May 2018 –

R&D Engineer- Intern

Aug 2018

- Produced a strategized modification of company's commercial formulation, resulting in a \$5,000,000 contract securement
- Enhanced and improved testing efficiency by 75% for predicting finish quality on low dpf BCF fiber
- Organized and led team meetings regarding project progression along with proposed areas of interest