

## PROFESSIONAL EXPERIENCE

Reynolds Consumer Products

**Nov 2018 – Present**

*Quality Assurance Engineer*

*Louisville, KY*

- Coordinated efforts around continuous improvement initiatives and reducing process variability.
- Interpreted process control data from cold-rolling mills (rolling forces, drive speeds, gauge data, etc.) to investigate quality and process concerns.
- Assisted the production department in the recall and inspection of supplier metal.
- Developed condition-based reporting with data acquisition systems (ibaPDA) and the SAP GUI Scripting API.
- Developed analysis methods and documentation for rolling oil systems testing.
- Provided feedback on mill processing and mechanical properties of trial products.
- Process owner and technical resource for our rolling oil filtration systems and breakdown mill.
- Managed medium-scale capital projects for auxiliary systems (Fire Suppression System upgrade and Safety Platform).

Ford Motor Company

**June 2017 – Aug. 2017**

*Process Engineering Intern*

*Louisville, KY*

- Reviewed manufacturing processes at the Louisville Assembly Plant for the assembly of the 2017 Ford Escape and 2017 Lincoln MKC.
- Identified the root causes of vehicle quality issues and provided recommendations for immediate action and long-term solutions to the Industrial Engineering department.
- Gathered information from operators, process coaches, and team leaders to recognize reoccurring issues and created spreadsheets detailing them for future reference.

## PROJECTS

Senior Design Project

**Feb. 2018 – May 2018**

- Designed the general structural architecture for a proposed satellite mission to Europa using SolidWorks 2018.
- Conducted trade studies to compare competing designs for mass and cost minimization.
- Analyzed designs under loading conditions found on both the SLS and Atlas V launch vehicles.

Robotic Vehicle Design

**Oct. 2016 – Dec. 2016**

- Designed and constructed a robotic vehicle that utilizes infrared sensors and ultrasonic sensors to target stationary and moving objects in an arena.
- Programmed in C using Atmel Studio and electronically designed for compatibility with drivers, actuators, and two battery sources.

## SKILLS

**Programs:** Minitab, ibaAnalyzer/ibaPDA/ibaDatCoordinator, Microsoft Office Suite (Word, PowerPoint, Excel, Visio)

**Computer Aided Design:** SolidWorks, AutoCAD

**Finite Element Analysis:** ANSYS Workbench

**Programming Languages:** C#, Python, VBA

**Certifications:** Engineer in Training (EIT), Issued Nov 2019

## ORGANIZATIONS

Society of Professional Hispanic Engineers

**Aug. 2015 – May 2018**

Member of an organization dedicated to the outreach of Hispanic students pursuing a S.T.E.M. field major and professional and leadership opportunities for these students.

Alpha Phi Omega

**Aug. 2016 – May 2018**

Member of a national coeducational service organization founded on the principles of Leadership, Friendship and Service.

## EDUCATION

**Cornell University**

*Ithaca, NY*

Bachelor of Science in Mechanical Engineering

*May 2018*

Dyson Business Minor for Engineers