

PROFESSIONAL EXPERIENCE

Reynolds Consumer Products

Nov 2018 – Present

Quality Assurance Engineer

Louisville, KY

- Coordinated efforts with cross-functional teams around continuous improvement initiatives and reducing process variability.
- Interpreted process control data from cold-rolling mills (rolling loads, drive speeds, gauge data, etc.) and SAP ERP data 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).
- Developed analysis methods and documentation for rolling oil additive testing.
- Provided feedback on mill processing conditions and mechanical properties for product trials.
- Process owner and technical resource for our rolling oil filtration systems.
- Managed medium-scale capital projects for mill auxiliary systems.

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 (Word, PowerPoint, Excel, Visio)

Computer Aided Design: SolidWorks, Autodesk Products (AutoCAD, Inventor), CATIA V5

Finite Element Analysis: ANSYS Workbench, Abaqus/CAE

Programming Languages: MATLAB, C, C#, Java, 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