Eduardo Chagua

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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 loads, drive speeds, gauge data, etc.) and SAP 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 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 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 (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