

Belen Szentes

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EDUCATION

Rice University, Houston, TX

May 2025

Bachelor of Science — Mechanical Engineering

Engineering Design Minor, Global Health Technologies Minor

INDUSTRY EXPERIENCE

(2 Years)

Tesla Austin, Texas

August 2023- December 2023

Quality Engineering Co-op - Model Y Team

- Analyzed customer data in Excel and Minitab to identify quality issues impacting the vehicle body of the Model Y
- Lead weekly meetings to bring customer facing quality issues that I identified to cross functional engineering teams
- Designed multiple fixtures on Solidworks to improve seal gap measurement precision and process speed and ran GR&R trials to validate implementation of new fixtures on Model Y and Cybertruck

Apple Cupertino, California

January 2023- August 2023

Product Design Co-op - iPad Team

- Owned and resolved several critical mechanical design build issues by performing root cause analysis, redesigning modules on NX and working closely with vendors to manufacture, evaluate and down select designs
- Developed standards of practice to record data on component performance and analyzed data to identify key risks, and monitor part spec performance post downselection

Cala Health San Mateo, California

May 2022- August 2022

R&D Mechanical Engineering Co-op - R&D New Technology Team

- Designed, prototyped and produced a subcomponent assembly fixture for a wearable bioelectronic neuromodulating device that significantly increased the assembly process's precision and speed by 4 times
- Developed and performed bench and human testing protocols to characterize the electromechanical properties of several electrode materials and soft goods materials for a wearable neuromodulating medical device
- Identified a major mechanical design conflict through bench and human testing on a component of a wearable neuromodulation device
- Redesigned, tested and presented results of 2 viable prototypes as solutions, one of which has a pending patent

Johnson & Johnson (Ethicon Endo-Surgery) Cincinnati, Ohio

August 2021- May 2022

R&D Engineering Design Co-op - New Product Development Team

- Led effort to redesign an electromechanical component on an laparoscopic energy device through brainstorming, concept selection tools, prototyping and preliminary bench testing
- Created and executed testing protocols in tissue lab for proof of concept testing for prototyped solutions
- Assisted in project management of plastic and packaging suppliers by managing quotes to create the team's budget, validating tooling and implementing project timelines

ENGINEERING DESIGN PROJECTS

Children's Soap Dispenser Attachment

July 2020-December 2020

1st Place Pediatric Design Track, 2nd Place Overall

- Collaborated on a team of five undergraduate students to design, prototype and test a child-friendly soap dispenser attachment that serves to incentivize proper hand washing etiquette according to CDC guidelines

LEADERSHIP EXPERIENCE

El Cotorreo Lead (Johnson & Johnson)

August 2021-May 2022

- Founded and led a bi-weekly program introducing the Spanish language and Latin culture to Ethicon employees to facilitate interactions with our international partners

RELEVANT SKILLS

NX, SolidWorks, CAD Drawings, CAD Design, Design for Manufacturing (DFM), Minitab, JMP, Basic GD&T, Basic Six Sigma Analysis, Incline, Microsoft Suite, Jira, Matlab, SLA 3D Printing, Adobe Illustrator, Fluent Spanish