

Adriana Marie Muñoz Soto

adriana.munoz2@upr.edu

LinkedIn-adrianamunoz2

(787)-320-6023

EDUCATION

University of Puerto Rico - Mayaguez Campus (UPRM)

Expected Grad: **Dic-2022**

B.S.—Mechanical Engineering

GPA:3.60/4.00

TECHNICAL SKILLS

- Product Design, Product Development Process, BOM Creation, Fusion 360, Siemens NX 11, AutoCAD, On Shape, MS Office Suite, G Suite, Slack, Scrum Method, 3D Printing (Formlabs & Zortax)

RESEARCH EXPERIENCE

National Oceanic and Atmospheric Administration (NOAA) / University of Rhode Island (URI) **May 2020-present**

NOAA EPP/MSI (Educational Partnership Program/ Minority Serving Institution) Scholar

- Create deep-sea imaging system transmitting live footage over a fiber optic fishing line
- Design several versions of a 3D-printed enclosure to fit the epoxy-potted components of a Raspberry Pi-based deep-sea camera and lighting system that will be adhered to a UAV
- Ideate and CAD design components such as reel mockup, rim, curved slide for the fiber optic fishing line reel setup

Human Centered Design (HCD) Lab, University of Puerto Rico

August 2019-Dic 2020

Design Thinking Undergraduate Research Student

- Optimize “New Venture Design Experience” experimental program to increase student success and entrepreneurship
- Interview business owners and entrepreneurs that stemmed from the Design Thinking and Consumer Behavior Courses

SURF Program Purdue University, West Lafayette

June 2020-August 2020

Pathways Scholar Undergraduate Researcher

- Create machine tool cost model for milling machines, identifying key components that drive the price to observe how design changes affect the cost of machine tools

Hardware Product Sprint (HPS) Program, Google Inc.

May 2019-August 2019

Mechanical Engineering Selected Student

- Design unique plastic enclosure in OnShape platform to fit the internal components of [Google’s AIY voice kit](#)
- Invited to “EVT week” at Google HQ to assemble, build, complete fit check and present final 3D-printed product & design review to Google hardware engineers and HPS community

National Oceanic and Atmospheric Administration (NOAA)

June 2019-August 2019

NOAA-EPP CESSRST Scholar/Intern

- EPP/CESSRST-Educational Partnership Program/Center for Earth System Science and Remote Sensing Technology
- Design 3D printed mount attaching the Velodyne VLP-16 LiDAR sensor to UAV drone to collect data

ACTIVITIES/LEADERSHIP

Sofie’s Art Studio, Illustration/Art eCommerce

August 2020-present

Founder, Owner, Operator, CEO, and Illustrator

- Create a stationery and illustration art business. Function as business manager; head of planning, social media, customer service, shipping, research and development of personalized art items as well as content planner and creator.

Design Thinking & Consumer Behavior Course, Teacher’s Assistant

January 2021-May 2021

- Plan and host events, grade assignments, and mentor students in interactive, experimental, hands-on course

Society of Automotive Engineers (SAE) UPRM

September 2019-Mayo 2021

Graphic Design Director

- Design project ranging from video editing, event promotions, print & shirt design, and anything creative.

New Venture Design Experience (Design Thinking & Product Design Course), UPRM

August 2019-June 2020

Product Leader

- Lead 6-person group in multidisciplinary program that joins engineering design, innovation and entrepreneurship

PUBLICATIONS

Published Article by Sensors, URI

B. Phillips, N. Chaloux, R. Shomberg, A. Muñoz, J. Owens (April 2021)

Published Paper by ASME, HCD Lab, UPRM

J. Lugo, A. Muñoz, M. Ríos (March 2020)

Technical Paper, Purdue University, West Lafayette

A. Muñoz, M. Triebe, J. Sutherland (August 2020)

HONORS/AWARDS

ExxonMobil Fellowship Scholar

July 2020-August 2020

“Juntos” Hispanic Student Leadership Virtual Summit, Google

July 2020-August 2020

NOAA EPP/MSI Virtual Summer Symposium, Second Place Presentation Winner

July 2020