

# HANNABETH R. MEDINA (HANNA)

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## OBJECTIVE

Recent university graduate with a BS in Mechanical Engineering and a certificate in Computer Science seeking a full-time, entry-level position that allows me to leverage my acquired academic knowledge and passion for computer programming and development.

## EDUCATION

### The University of Texas at Austin

Cockrell School of Engineering

Bachelor of Science Mechanical Engineering | Certificate in Computer Science

**Graduated: Spring 2020**

Overall GPA: 3.3/4.0

### Relevant Coursework:

**Engineering:** Fluid Mechanics, Thermodynamics, Heat Transfer, Dynamics, Materials, Mechanics of Solids, Statistics, Mechanics of Programming and Engineering Computational Methods, Finance, Machine Elements, Mechatronics, Dynamic Systems & Controls, Design Methodology

**Computer Science:** Software Engineering, Game Development, Graphics & Visualization, Software Design, Data Analytics, Databases,

### Education Abroad:

- **Pontificia Universidad Catolica de Valparaiso:** Engineering Communication

### Related Projects:

- **Dynamic Tensioner for Total Knee Replacement:** designed and modeled a functional prototype for a dynamic medical device with an accompanying mock GUI to assist surgeons in total knee replacement surgery
- **Food 3D Printer:** designed, programmed, and produced a 3D printer capable of printing melted chocolate and various food materials into user-determined designs created on a modeling software
- **Game Development:** successfully created, coded, and animated a fully functioning game using Phaser framework, html5, CSS, and JavaScript
- **Road Safety Prediction Model:** in partnership with SparkCognition, utilized a supervised training classification approach on uncleaned data and an automated model building product to predict the road conditions that resulted in the greatest number of fatalities
- **Semi-Autonomous Vehicle Design:** redesigned and produced a 3D model of a small-scale, semi-autonomous motorized vehicle equipped with a network of inertial sensors and geospatial positioning
- **Environmental Research:** researched and produced a 30+ page research report on the ethical dilemma between environmental protection and Chilean mining

## WORK EXPERIENCE

### Innervycs Valparaiso, Chile

**Summer 2018**

*Programming & Product Design Intern*

- Worked closely with engineering team to redesign a semi-autonomous small-scale robot to improve utility and cost efficiency
- Collaborated with a team from different cultural backgrounds to produce project proposals, updates, and ultimately delivered a final product design

### Starbucks Austin, Texas

**2017-2018**

*Barista/Trainer*

- Maintained customer relations with efficient delivery of all beverages and completed any assigned tasks from management on a daily basis
- As a senior leader, trained and onboarded newly hired members up to the company's high standards

## SKILLS

**Technical:** Python, Java, html5/CSS, JavaScript, MATLAB, SQL, MS Word, MS PowerPoint, MS Excel

**Software:** Solidworks, AutoDesk Fusion 360

**Machine Learning:** Classification, Clustering, Association analysis, Dimensionality reduction

**Language:** English (Fluent), Spanish (Conversational)

## ACTIVITIES

American Society of Mechanical Engineers – *Active Member*

**2017- current**

Women in Computer Science – *Member*

**2020- current**