

# Hebellyn Quezada

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## Education

**Bachelor of Science in Engineering, Robotics Engineering** May 2020  
Arizona State University, Polytechnic Campus, Mesa, Arizona GPA 4.00  
Barrett, The Honors College

## Work Experience

- **Electrical Engineer Intern**, Privoro, Tempe, Arizona Summer 2018 – Present
  - Designed & implemented an Automated Testing Environment for product testing.
  - Tested GPS antenna & characterized data
  - Employer: Neric Fong, (844) 774-8676x920
- **Calculus II Tutor**, Joaquin Bustoz Math Science Honors Program, Tempe, Arizona Summer 2018
  - Oversaw 8-week Calculus II class 7 hours daily to answer homework questions and provide tutoring when needed.
  - Employer: Cynthia Romero, (480) 965-1690

## Projects

- **Children's Engineering Kit for Honors Barrett Thesis** Fall 2019-Present
  - Designing a kit to expose children to engineering applications & analyze effective teaching methods.
- **Testing the Impact of Evelyn Ford's Inserts on Comfort** Fall 2019-Present
  - Carry out proof of concept for Evelyn Ford, a startup company that aims to make heels comfortable with their insert technology.
- **Bioinspired Hopping Rabbit Robot (Foldable Robotics)** Spring 2019
  - Collaborated with a team of four to create a robot that mimics a rabbit's locomotion using a four-bar mechanism with a spring by designing and fabricating a laser cut foldable mechanism.
  - Modeled and analyzed kinematics and fabrication process with Python.
- **Automated Cribbage Board Game** Spring 2019
  - Modernized Cribbage by adding entertaining actuators to it and a math learning aspect to it for children.
  - Responsible for creating Victory Flag subsystem, which will use a motor controlled with limit switches to lift flag up to 90 degrees when player wins game and then return to initial resting position.
  - Will use a PIC microcontroller to program it using C and create printed circuit board with surface mount components.
- **Runner Safety Device** Fall 2018
  - Collaborated with teammates to create a device that increases runner safety by notifying the runner if there are any disturbances behind them & lights up their path when darkness is sensed.
  - Created our own custom printed circuit board (through holes) using Cadence.
  - Programmed microcontroller using PSoC Creator.
- **Pick & Place Manipulator Depending on Object Color** Fall 2018
  - Constructed a 3 degrees of freedom manipulator that uses camera vision to locate object and determine its color. The manipulator then picks up the object and places it with objects of the same color.
  - Used PSoC Creator and Python to code microcontroller.

## Skills

- **Solidworks-CSWA Certified** (2016-2019)
- **Fluent in Spanish**, written and spoken