

# José A. Yañez Salas

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## Education

### **Princeton University, Princeton, NJ**

Expected Graduation: June 2020

**Majors:** Mechanical Engineering; Aerospace Engineering

**Minors:** Robotics and Intelligent Systems; Entrepreneurship

**Relevant Coursework:** Thermodynamics, Solid Mechanics, Engineering Dynamics, Fluid Mechanics, Engineering Design, Aircraft Flight Dynamics, Aircraft Design, Automatic Control Systems, Mechanical Design, Computer Science.

### **Advanced Technologies Academy, Las Vegas, NV**

Graduated: June 2016

**Awards/Distinctions:** AP Scholar with Distinction, Advanced Honors Diploma, QuestBridge Finalist, President's Award for Educational Excellence, Rotary Youth Leadership Award, Boys State Senate Majority Leader.

## Projects

### **Autonomous Land Surveying- Senior Thesis**

- Creating an autonomous land surveying robot that uses Ground Penetrating Radar (GPR) to autonomously scan uncharted land for scholar, humanitarian, and military applications.

### **Reciprocating Saw Bit**

- Designed and developed durable and compact driving bit which converts rotational motion into reciprocating linear motion, allowing the driver to act as a reciprocating saw. Currently seeking patent and licensing agreements.

### **Habitat for Humanity**

- Designed blue print for local Habitat for Humanity chapter developing homes in the Las Vegas area.

### **Princeton Racing Electric**

- Developed aerodynamic fiberglass body frame composites for formula SAE team, taking 2<sup>nd</sup> place in the electric category.

## Work Experience

### **Princeton University**

January 2020- Present

*Motorcycle Course TA and Machinist*

- Lead freshmen through the art of restoring and building classic Triumph Tiger Cub motorcycles.

### **Princeton, NJ**

January 2019-Present

*Private Tutor*

- Tutor Math and Science at various levels from 8<sup>th</sup> grade to SAT prep as well as Spanish 6-8 hours a week.

### **Cisco Systems, San Jose, CA**

June 2019-August 2019

*Global Sales Technical Sales Intern*

- Provided account insights (market trends, business strategy, etc.) for accounts such as Google and United States Air Force.
- Designed web application with teammate, filtering malicious websites using Talos Intelligence, earning 1<sup>st</sup> place in Hackathon.
- Worked on a team leveraging Cisco's CAM project to provide a more frictionless experience for employees by consolidating data and providing a way to improve the company's image in the industry, presenting directly to panel of 6 company executives.

### **Andluca Technologies, Princeton, NJ**

November 2018- January 2019

*Control Systems Consultant*

- Designed smart solar window prototype using Particle Photon to wirelessly control system functionality.

### **Air for Less Heating and Cooling, Las Vegas, NV**

June 2013-August 2018

*Sales, Customer Acquisition, and Technician*

- Established company's first commercial account with local supermarket chain with 4 locations in the area.
- 80+ hours per week working on sales, customer acquisition, and installing/maintaining units.

### **United World Wrestling, Las Vegas, NV**

September 2015

*International Interpreter*

- Translated on-air interviews with international wrestlers from Spanish-speaking countries throughout world championships.

## Leadership and Service Experience

### **Athletes in Action- Music Director**

September 2019-Present

### **Princeton University Men's Rugby**

2018 -Present

### **Princeton Powerlifting Club**

2016 -Present

### **Society of Hispanic Professional Engineers- Treasurer**

2016 -Present

### **Canyon Springs High School Wrestling and Swimming Team Captain**

December 2014-May 2016

## Skills

**Private Pilot - Flyright Aviation:** Flight time experience in single engine aircrafts: Cessna 172 Skyhawk and Cessna 152.

**Programming:** Java, Robot C, MATLAB, Python, Arduino, R, C.

**Computer-Aided Design:** Autodesk Inventor, Autodesk Revit, Creo 5.0, Fusion 360, Solidworks, 3D printing.

**Shop Experience:** Lathe, Milling Machine, CNC Machining, Sandblasting, Soldering.