

# Pablo Salamanca

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## PROFESSIONAL EXPERIENCE

### Oliver Space

San Francisco, CA

Software Engineering Intern

May 2022 – August 2022

- Developed internal tooling for customer experience
- Won internal hackathon by redeveloping website experience (React.js, Vue.js)
- Contributed to backend logistics codebase (Ruby on Rails)

### Monarch Tractor

Livermore, CA

Mechatronics Engineering Intern

February 2020 - June 2020

- Tasked with incorporating stereo depth cameras to route mapping algorithm (Python, C++)
- Developed Power Take-Off hand-protection software using computer vision (OpenCV)
- Fragmented computing hardware using NVIDIA Jetson Nano

### Canal 13

Santiago, Chile

Web Developer

January 2018 – March 2018

- Developed a website for a new division of Canal 13 centered around robotics and technology

### Optimus Meta

Remote

Software Developer Intern

August 2020 – February 2021

- Contributed to startup that built an Objectives and Key Results system in Golang and React.js

## EDUCATION

### University of Pennsylvania

Philadelphia, PA

Bachelor of Science in Engineering, Computer Science

Expected Graduation: 2025

GPA: 3.7/4.0, Penn Quant Trading Club (Advanced Team)

### Andrée English School

Santiago, Chile

High School Diploma

GPA: 6.9/7

## PROJECTS AND COMPETITIONS

### Robotics

Recruited by a joint team from top Chilean universities to participate in Tokyo two times.

- 2x Gold Medal, Competencia Robótica UTFSM (2017, 2019)
- Silver Medal, Competencia Robótica UTFSM (2018)
- 21st Place, All Japan Micromouse and Robotracer Contest (2018)
- 57th Place, All Japan Micromouse and Robotracer Contest (2017)

Valparaíso, Chile

Tokyo, Japan

### Trading Bot

- Created a periodic portfolio rebalancer using Wharton Research Data Services, TD Ameritrade API, and Python

### Wireless Laser-Gate Track & Field Timing System

- Created ultra-affordable wireless timing system for Track & Field athletes and coaches
- Published all the code, PCB designs, 3D CAD designs, and instructions for free on Hackster.io and Arduino Project Hub. Project was very well received by the local and online community.

### Mathematics Olympiad

- Gold Medal National Mathematical Triathlon, Universidad San Sebastián

## ADDITIONAL SKILLS

- Proficient in Python, Java, C (Arduino), C++, Javascript (React, Vue), HTML/CSS, Ruby on Rails, PCB Design (Autodesk EAGLE), Embedded Systems, 3D Modelling (Fusion 360, Autodesk Inventor), Welding and Metalworking
- Fluent in English and Spanish