

Pablo Salamanca

+1 (267) 273-4402 | pablosalamanca88@gmail.com | pablerdo@seas.upenn.edu | <https://pablosalamanca.com>

PROFESSIONAL EXPERIENCE

Amazon

Seattle, WA

Software Developer Engineer Intern (Ads, Sponsored Brands Video)

June 2024 – August 2024

- Lead the migration of a business-critical ad-creation service to Native AWS.
- Managed discussions with dependent teams across ad organizations.

Amazon

Seattle, WA

Software Developer Engineer Intern (Ads, Sponsored Brands Video)

May 2023 – August 2023

- Conducted research, development, and testing of Fast Fourier Transform-based blurriness detection algorithms using Python and OpenCV.
- Created an entirely new AWS Lambda-backed API deployed through CDK bringing the aforementioned algorithms into production. (API Gateway, Docker)
- Played a key role in enhancing the performance of the video advertising pre-moderation flow by improving blurriness analysis latency and subjectivity.

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.

EDUCATION

University of Pennsylvania

Philadelphia, PA

Bachelor of Science in Engineering, Computer Science

Expected Graduation: 2025

GPA: 3.8/4.0, Penn Quant Trading Club (Advanced Team)

Andrée English School

Santiago, Chile

High School Diploma

GPA: 6.9/7.0

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
- 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