

Pablo Tirado Hidalgo

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EDUCATION

Rutgers University - Honors College - HSF Scholar 22'

Bachelor of Science in Computer Science - Dean's List (7 semesters)

Minor in Earth and Planetary Sciences

New Brunswick, New Jersey

May 2026

GPA: 3.7 / 4.0

WORK & LEADERSHIP EXPERIENCE

Morgan Stanley

Wealth Management - Product Management Ops Intern

Wall Street, New York

June 2025 – Today

- Built automation tools in Alteryx and Power BI to streamline reporting workflows, saving over 200 hours annually; documented usage and handoff procedures adopted by 5 fleets to reduce onboarding time by 80%
- Shadowed a PMBA to learn the lending product lifecycle, then led a 5-person intern team on a cross-silo analytics project that identified growth trends and was presented to senior management

Rutgers Linguistics Dept.

Website Technician

New Brunswick, New Jersey

October 2022 – Today

- Maintained and updated over 100 pages on the Linguistics site, ensuring consistent formatting, fixing broken links, and integrating faculty research updates to improve navigability and reduce outdated content
- Regularly built and posted content across course listings, announcements, and research pages, keeping departmental info current for 20,000+ annual visitors

Drone AI Research - Rutgers Civil Engineering Dept.

Robotics Engineer & AI Researcher

Piscataway, New Jersey

May 2024 – January 2025

- Conducted 15 point-cloud scans of industrial machinery into optimized, rigged models using MeshLab and Blender, then injected them into physics-based localization simulations, cutting pose-estimation error by 12% during algorithm validation
- Containerized Ultralytics-YOLO in Docker with CUDA acceleration on the Orin, pushing real-time inference to 30fps and boosting road-defect detection accuracy from 68% to 85%, which cut post-flight review hours by 30%

Genesis Aromas Inc + Salt Logistics

Summer Intern Software Engineer & Operations Assistant

Somerset, New Jersey

May 2023 – Aug 2024

- Launched company's first website using Google Maps API to showcase location, products, and services; directly contributed to a 15% increase in local sales within the first quarter.
- Upgraded the Salt Logistics site to remove redundancy and clearly display our key services resulting in an increased session duration by 10%

PROJECTS

Github: <https://github.com/Pablotir>?tab=repositories

- **Robot Assistant w/ 5DOF Arm:** Developed a robot which leveraged OpenCV on using AprilTag detections via an OpenMV RT1062 camera and a Lego NXT brick achieving 95% successful object retrieval rate based on SLAM navigation within a 30-foot radius.
- **Auction Assistant Extension:** Assists the user to find what is the market price for something on Ebay Auctions through a reverse image search, currently being developed for collectibles such as Pokemon cards, and then reports to the user if they are buying below market price.
- **Arduino VR walking tracker:** Used an MPU6050 sensor and an Arduino Pro Micro to be able to send keyboard inputs depending on the sensor values to register movements in VR.

SKILLS

Technical: Java, JavaScript, HTML, CSS, Python, C++, C, Computer Vision, TensorFlow, YOLO, OpenCV, SLAM implementation, Robotics Design & Assembly, Fusion360, Blender, MeshLab, Joomla!, UI/UX, Docker, Unreal Engine

Language: English (Native), Spanish (Native)

VOLUNTEER ACTIVITIES

- Packing Hygiene Kits for Elijah's Promise - Monthly
- Helping Paws: Making Dog Toys and Gift Bags For Local Animal Shelters - Monthly
- Back 2 School Service Project: Creating Back to School Supply Kits For Local Elementary Students - Annually