

Tadeo Hernandez

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EDUCATION

University of Delaware

Bachelor of Science, Electrical Engineering

Expected May 2029

GPA: 3.4/4.0

PROJECTS

Web-Based Image Steganography Tool

November – December 2025

- Created a full-stack steganography web app using Python, PIL, and Drafter to encode and decode hidden messages inside PNG images.
- Designed a parity-based storage system utilizing the green channel and a header-based protocol.
- Employed dataclasses, type hints, and automated tests to ensure reliability and long-term maintainability.

Self-Hosted Cloud Server

October 2025

- Repurposed an old laptop into a Linux-based web server using Nginx, Tailscale VPN, and Cloudflare DNS for secure, scalable access.
- Deployed a self-hosted Nextcloud instance to enable private, scalable file storage and synchronization.
- Gained hands-on experience with Linux administration, web hosting, DNS management, and secure network tunneling.

EXTRACURRICULARS

RISE Program (Resources to Inspire Successful Engineers)

September 2025 – Present

- Built early engineering career readiness through mentorship and networking events.

Cybersecurity Scholars

August 2025 – Present

- Selected for a competitive program emphasizing algorithms, penetration testing, and cybersecurity entrepreneurship through hands-on technical and business-focused projects.

Society of Hispanic Professional Engineers (SHPE)

August 2025 – Present

- Supported chapter growth by attending networking workshops and the 2025 SHPE National Convention.

EXPERIENCE

Community Outreach E-Tern, SHPE

Newark, DE, December 2025 – Present

- Identified opportunities for SHPE to engage with the UD campus and local community through service initiatives.
- Coordinated volunteering and K–12 STEM promotion efforts to expand SHPE's impact and visibility.

Busser, Food Runner, Server, SoDel Concepts

Bethany Beach, DE, May 2024 – Present

- Handled 400+ covers per shift during high-volume service.

Business Owner, FullCloset (Affiliate Marketing)

November 2023 – May 2024

- Founded and operated FullCloset, generating \$8,000+ net revenue in 7 months.
- Produced content with 500,000+ cumulative views across TikTok and YouTube.

SKILLS

Programming & Development: Python, HTML, CSS, Git/GitHub, Linux

Design: Adobe Creative Suite, Autodesk Fusion 360