

## Lenora Pondigo

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### Education

#### Universidad De Las Américas Puebla - UDLAP

Puebla, México

Engineering on Robotics and Telecommunications. GPA 3.55

August 2023 Graduate

Relevant Coursework: Kinematics, System Design, Digital Signal Processing (DSP), Control Systems, Embedded Systems, System Optimization, Telecommunications Systems, Communication Networks, Machine Learning, Sensors and Actuators, Computational Mathematics.

### Experience

#### Instituto Nacional de Astrofísica Óptica y Electrónica – INAOE

Puebla, México

##### Engineering Intern

January 2023 – August 2023

- Designed and implemented a remote laboratory for semiconductor characterization, including MOSFETs transistors, solar cells, and other components.
- Developed a Python API using FastAPI to trigger NIVisa commands for equipment automation to get characteristic curves of the semiconductors.
- Built a user-friendly frontend with React.js and TypeScript to interact with the API and graph the results.
- Deployed on Windows Server using Apache.

#### Freelance

Puebla, México

##### Software Developer

July 2023 – October 2023

- Developed a frontend with React.js and TypeScript and an API with Node.js to manage medical devices (MD): status tracking, maintenance requests, catalog management, and dashboards.
- Built a Python microservice to import/export MD catalogs from existents .xslm catalogs and generate PDF reports.
- Deployed on Azure using Docker, Docker Compose, and NGINX. And manage DNS records and TLS certificates.

#### Cicada

CDMX, México

##### Software Engineer

January 2024– Present

- Backend team:
  - Developed microservices in Golang for auditing user activities, sent historical data to LSEG via WebSocket contribution channels, integrated Bonds.com via the FIX Protocol and sent STP messages to Citi Bank
  - Maintain the monolith built with Python with Django.
  - Conducted performance profiling with Go and stress testing with K6.
- Platform team:
  - Managed database migrations with DBmate and optimized database queries for PostgreSQL and TimescaleDB.
  - Created and maintained Kubernetes configurations (Kustomize, Helm).
  - Updated and implement Vault secrets across environments.
  - Administered AWS resources including EKS, EC2, CloudWatch, and Aurora.
- Cybersecurity team: Maintained TLS certificates, architecture diagrams, and supported ISO 9001 implementation and develop just in time access tools for NATS.

### Leadership & Activities

#### Universidad De Las Américas Puebla – UDLAP

Puebla, México

##### President of the Degree Program's Student Council Board

January 2022 – July 2022

- Strengthened student-faculty communication, organized professional development events, led council members in planning initiatives, and collaborated with university administration to address student concerns.

### Skills & Interests

**Technical:** Go (Golang), Python, TypeScript, React.js, Node.js, PostgreSQL, TimescaleDB, dbmate, Financial Information eXchange (FIX) Protocol, WebSocket, REST API, ISO 9001, Kustomize, Helm, kubectl, K9s, Docker, Docker Compose, AWS EKS, AWS EC2, AWS CloudWatch, AWS Aurora, Vault (HashiCorp), K6, Query Profiling, GitHub Actions, Zellij, yq, FastAPI.

**Language:** English (B2) and Spanish (Native).

**Laboratory:** Oscilloscope, AWG, MOSFET transistors, solar cells, DMU, power sources and automatization with NIVisa.

**Interests:** Explore runtime optimization, hardware acceleration, and software efficiency technologies.