Diego Gerardo Sánchez Moreno

Software/Product Engineer (in training)
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Summary

Software and product-oriented engineer in training with hands-on experience delivering production systems. Built operational platforms for real businesses with billing, memberships, and offline-first POS workflows. Seeking software/product roles with strong systems integration and reliability requirements.

Education

B.S. in Robotics and Digital Systems Engineering
Tecnológico de Monterrey, Campus Querétaro
2022 – Jun 2026 (expected)

Experience

Patio Cinco (Querétaro) — Production Platform
Product/Systems Engineer — 2025 – 2026

- Delivered a production system for memberships, billing, and customer operations with persistent fiscal data.
- Migrated a basic Wix + Google Sheets workflow into a structured, traceable platform.
- Built modular flows on Wix + Velo backed by relational data and operational logging.

Barbacoa de Miranda (Querétaro) — POS System
Product/Systems Engineer — 2025 – 2026

- Built an offline-first POS for Raspberry Pi with local queueing (SQLite) and auto-sync to backend.
- Implemented a full-screen UI for fast cashier workflows and daily reporting.

Hybrid Soft Robotics Lab (Tec de Monterrey, Qro.)
Engineering Research — 2024 – Present

- Built a telemetry and control platform with a Python SDK + GUI and MATLAB-based analysis.
- Implemented embedded communication (ESP32 + micro-ROS) and data logging pipelines.

Selected Projects

Portfolio Website (Astro + Tailwind)

- Designed a content-driven portfolio with reusable components and a clear technical narrative.

PuzzleBot (ROS 2)

- Integrated telemetry and perception pipeline in ROS 2 for autonomous driving demos.

Awards & Certifications

- NVIDIA DLI: Fundamentals of Deep Learning (Jun 2025)
- OpenCV Bootcamp (Apr 2025)
- Google Cloud Computing Fundamentals (Mar 21, 2023)
- Best Poster Award — Exploring Soft Robotics (Dec 2025)

Technical Skills

- **Languages:** Python, TypeScript, C++
- **Backend/Data:** Supabase, PostgreSQL, SQLite, REST
- **Product/Web:** Wix + Velo, Astro, Tailwind
- **Systems:** Logging, offline queues, data sync, Raspberry Pi

Languages

Spanish (Native), English (B2)