

Juan Miguel

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Education

University of Pennsylvania – School of Engineering and Applied Science
B.S.E in Systems Engineering | Intended Minor in Computer Science

Philadelphia, PA
May 2028

• Cumulative GPA: 3.7/4.0

• Relevant Coursework: Programming Techniques I & II, AI Principles, ML, Dynamic Systems, Calculus II & III, Advanced Linear Algebra, Optimization, Micro/Macroeconomics, Accounting.

Projects & Research

Intek Studio | Co-Founder | <https://intekstudio.com/> | Philadelphia, PA

Oct 2025 – Present

• Leading a boutique software agency focused on building AI-powered tools and automation pipelines purpose-built for travel agencies, replacing manual redundancy with scalable, intelligent infrastructure.

• Secured partnership with Cartology Travel to build an end-to-end ecosystem (PWA, Web, Dashboard), helping 20+ travel agents streamline operations reducing turnaround time by 50% and prioritize high-touch service.

LDOS Researcher | CIS7000 | <https://ldos.utexas.edu/> | Philadelphia, PA

Dec 2025 – Present

• Conducting research under Prof. Sebastian Angel on the Learning Directed Operating System (LDOS), designing self-adaptive OSEs that replace human-crafted heuristics with learned policies for dynamic resource management.

• Investigating process-level information disclosure mechanisms to enable intelligent scheduling beyond Linux's default fair scheduler (EEVDF), improving kernel-level decisions.

Professional Experience

Applaudo | Product Management Intern | El Salvador

Jun 2026 - Aug 2026

• Joining the Product Strategy practice to help integrate AI into product discovery, specification, and prototyping, supporting the team's effort to embed AI as an intelligence layer across the product lifecycle.

• Scoped to build internal AI-powered prototypes and support client-facing product engagements across industries.

Insigneo Financial Group | Private Equity Summer Analyst | Miami, Florida

Jun 2025 - Aug 2025

• Conducted research on the US market for Latin American food & beverage products, supporting a \$100M buy-and-build fund by interviewing exporters and distributors to map a fragmented value chain.

• Identified and prioritized acquisition targets in the most opportunistic sub-segments, translating qualitative market signals and DCF/LBO models into a data-backed investment thesis presented to the investment team.

Central America Spinning Works | Project Management Intern | El Salvador

Jun 2023 - Aug 2023

• Partnered with engineers and floor operators across spinning, weaving, dyeing, and finishing lines to audit 500+ machines and identify high-impact optimization opportunities alongside the Lean Six Sigma team.

• Scoped and executed a power factor correction rollout on high-consumption equipment end-to-end, from target identification through implementation, contributing to a 15% reduction in plant-wide electrical costs.

Extracurricular Experience

Claude Builder Club at Penn | Philadelphia, PA

Sept 2025– Present

• Train weekly on frontier AI tooling through Anthropic-led workshops on advanced prompting, agentic workflows, and Claude API integration, applying techniques directly to client-facing products.

• Built an AI itinerary generator using the Claude API that converts free-form client emails into structured JSON itineraries (destinations, dates, hotels, activities), feeding directly into Cartology's booking dashboard.

Product Space @ Penn | Fellow | Philadelphia, PA

Jan 2026 - Present

• Selected for a semester-long product management fellowship, developing core PM competencies in product ideation, user research, market analysis, and road mapping through structured workshops and mentorship.

• Practicing product design and strategy through case-based exercises and mock interviews, building fluency in prioritization, go-to-market, and stakeholder communication.

Operation Hope | Head of Operations, Board Member | El Salvador

2020 - Present

• Scaled operations across 7 Latin American countries, growing the network to 1,000+ members and driving fundraising to \$150K+ (~30% YoY growth) to sustain education, health, and mentorship community projects.

Skills & Interests

Languages: English (Native), Spanish (Native)

Programming Languages: Python, Java, OCaml, HTML, CSS, SQL, PyTorch, NumPy

Interests: Sports (Golfing, Squash, Tennis), Formula 1, Bayern Munich, Surfing, Hiking, Theology, and Investing.