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# Lupita Vásquez Fabela

Design Technologist ▪ AI Systems Designer

📍 New York City    ✉ [gsvfabela@gmail.com](mailto:gsvfabela@gmail.com)    🌐 [Portfolio](#)

*Systems-focused design technologist working at the intersection of agentic AI, cognition, and product strategy. Experienced in prototyping non-deterministic AI interfaces, lightweight orchestration layers, and cognition-aware systems that shape early product direction and decision-making.*

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## Education

### MFA Design and Technology

2024 – 2026

[Parsons School of Design](#)

New York City

*Merit Scholarship by The New School & Full Scholarship by SECIHTI, Mexican Government*

Impact Entrepreneurship Initiative Fellow

### B.Sc. Chemistry

2022

[Facultad de Química, Universidad Nacional Autónoma de México](#)

Mexico City

Specialization in Computational Chemistry and Philosophy of Chemistry

## Experience

### Founder / Design Technologist

2025 – Present

🏆 [Eleva](#) — Cognitive Accessibility Infrastructure for AI Systems

New York City

*Incubated during the Impact Entrepreneurship Initiative Fellowship at Parsons School of Design*

[Eleva website](#)

- Designed and prototyped agentic AI systems centered on accessibility-driven efficiency, using cognitive constraints to reduce computational cost and operational overhead.
- Built lightweight orchestration layers for LLM-based agents, optimizing short-term memory, tool-calling behavior, and recovery from non-deterministic failure paths.
- Developed early-stage, patent-pending interaction patterns reframing accessibility as product leverage rather than regulatory compliance.
- Conducted qualitative research (interviews, task observation) on user trust, cognitive load, and behavioral responses to non-deterministic AI systems.

### IT Transition and Delivery Manager

2023

[Nissan](#)

Mexico City

*IT Governance and PMO*

- Served as Scrum Master overseeing 7 project managers across 23 concurrent initiatives within IT Governance and PMO operations.
- Designed automated data collection and reporting workflows in ServiceNow, reducing manual reporting overhead and improving data reliability.
- Built PowerBI dashboards to support executive-level visibility into delivery timelines, risk, and resource allocation.

### Program Manager

2022 – 2023

[Blue People](#)

Mexico City

*Business and Software Development*

- Led the end-to-end development of an AWS-based e-commerce platform supporting logistics and warehouse optimization.
- Consolidated infrastructure into a single returns-handling facility by redesigning backend workflows and operational data flows.
- Designed data pipelines integrating Kanban systems into sales management portals, improving cross-team coordination and delivery tracking.

## Skills

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**AI Systems & Orchestration:** Agentic systems, LLM orchestration, short-term memory optimization, non-deterministic workflows

**Data & Modeling:** Statistical analysis, machine learning, data visualization, metrology

**Programming:** Python, SQL, C++, JavaScript (Node.js), HTML, CSS

**ML Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib

**Product & Workflow:** Git, Jira, VS Code, ServiceNow, PowerBI

**Design & Prototyping:** Figma, Adobe Illustrator, Adobe XD, Adobe Premiere Pro

**Languages:** Spanish (Native), English (Fluent), French (B1), Portuguese (A1)

## Certifications

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**HCIA-AI**

*Huawei Training Center, Hangzhou, China, 2024*

**AWS Partner Accreditation (Technical)**

*Amazon Web Services, 2022*

**ITIL Foundation Level**

*PeopleCert, 2022*

**Professional Scrum Master I (PSM I)**

*Scrum.org, 2022*

## Honors & Awards

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**Impact Entrepreneurship Initiative Fellowship**

*The New School, New York City, 2024*

**IA 1000, Top 100 HCIA-AI Certification Scores in Mexico**

*Mexico City and Hangzhou, China, 2024*

**Premio Impacto a la Innovación UNAM, Second Place**

*Mexico City, 2019*

**National Chemistry Olympiad, Silver Medal**

*Guadalajara, México, 2012*

**IX Concurso Hispanoamericano de Ortografía, Top 5 National Contestant**  
*2008*

*Mexico City, México,*

## Publications

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**A Pragmatist Approach for New Dynamic Ontologies in Chemistry**

*2022*

*Undergraduate Thesis, Universidad Nacional Autónoma de México*

Supervised by M.Sc. Luis Avelino Sánchez Graillet

Explored temporality as a core dimension of chemical identity, challenging reductionist models and setting foundations for pluralistic dynamic system representation in computational contexts.

[Spanish version](#)   [English version](#)

**Philosophical Pragmatism and Design as a Workaround to Common Fallacies in Executive Function Enhancement through Artificial Intelligence**

*2025*

Analyzes limitations of reductionist AI narratives through design and pragmatist philosophy, with implications for cognition-aware AI systems.

[English version](#)

## Projects

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**Digital Reins — Haptic Accessibility Interface for Riders with Neurodivergence**

*2025*

*BIG FROOTS & GallopNYC — Assistive Technology for Non-Verbal Riders*

Developed an innovative haptic feedback rein system to enhance communication and engagement for non-verbal riders with autism and related cognitive disabilities. Adjustable, ergonomic hardware featuring dual power support and millisecond radio transmission to minimize latency and maximize reliability for diverse users.

**Lightweight Interface and Backend Layer for LLM Short-Term Memory Optimization (WIP)** *2025*

*Eleva — Impact Entrepreneurship Initiative Fellowship*

Designing cognition-aware interfaces and backend layers that reduce token usage while improving content coherence and user engagement.