Lupita Vásquez Fabela

Design Technologist ▪ AI Systems Designer

📍 New York City   ✉ 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.

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   *2013 – 2018*
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

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

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

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 *Mexico City, México, 2008*

Publications

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

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. The Digital Reins translate rider intent into real-time tactile signals to support focus, reduce sensory interruptions, and improve interaction during therapeutic horseback riding sessions. Designed 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.