

Omar Ali Iqbal Davila

Mechanical Engineering

(662) 298 4902 • [LinkedIn](#) • omarali03@outlook.com • Monterrey, NL

Mechanical Engineering student with hands-on experience in sourcing, supplier management, and business operations across industrial and startup environments. Proven ability to combine technical analysis with execution in international, client-facing roles.

EDUCATION

-
- Tecnológico de Monterrey | B.S. Mechanical Engineering** Expected: June 2026
- GPA: 92.1/100
- Academic Exchange | Sungkyunkwan University | Seoul, South Korea** Sep. 2025 - Dec. 2025
- Selected coursework: Data Analysis, International Trade, Applied Engineering Materials. | GPA: 96/100

EXPERIENCE

-
- Contaré** | Fiscal advisory firm | Business Operations Intern Jan. 2026 - Present
- Developed a custom Excel VBA payroll automation for a bi-monthly payroll of 500+ employees, reducing processing time from ~15 hours to ~2 hours per cycle and significantly lowering manual errors.
 - Managed daily business and fiscal operations for freelancers and corporate clients, ensuring accurate invoice validation, compliance with SAT requirements, and organized financial documentation.
- Baker Hughes** | Mexico Sourcing Specialist Intern Aug. 2024 - Sep. 2025
- Analyzed SAP demand data to identify high-risk parts, single-source suppliers, and high-volume components across multiple manufacturing categories, supporting sourcing prioritization and continuity decisions.
 - Managed RFQs and supplier evaluations across multiple categories, reviewing technical drawings and manufacturing capabilities to qualify vendors based on specifications, coatings, tolerances, and production limits.
 - Led weekly supplier follow-ups and KPI tracking, contributing to the resolution of long-standing payment backlogs and improving supplier engagement for critical components.
- Chambee** | Early stage gig-economy marketplace | Co-Founder 2024 - Present
- Defined the business model, including client fees, worker charges, and payment processing flows using Stripe for payments and worker verification.
 - Led early go to market planning, focusing on organic acquisition strategies and phased social media campaigns ahead of product launch.
 - Built KPI dashboards to track job activity, geographic coverage, and operational performance, supporting strategic expansion planning.

Academic Projects

-
- Daikin** | Heat Exchanger Airflow Optimization 2025
- Conducted CFD simulations in ANSYS Fluent (20+ hour runs) to analyze air behavior in tube heat exchangers.
 - Evaluated tube rotation angles and surface pimples to improve airflow and heat transfer performance.
- Daimler Truck** | Paint Booth Structural Redesign 2024
- Redesigned a paint immersion gate over a 10 week project, using static force analysis to withstand structural loads.
 - Proposed a reinforced mechanical solution to improve structural integrity and operational reliability.

SKILLS

-
- Technical & Data Tools:** Excel (Advanced, VBA), SAP, Dashboard Design & KPI Tracking
 - Programming Languages:** JavaScript, Python
 - Engineering Tools:** SolidWorks, MATLAB, ANSYS Fluent
 - Languages:** Spanish (Native), English (Fluent)

ADDITIONAL INFORMATION

Early Academic Honors: Bronze Medalist, State Chemistry Olympiad (2020) | Physics Olympiad (Participant, 2021).
Community Engagement: Volunteer, TECHO | Built a full housing unit for a family in a 2-day build as part of a team. Volunteer, SPPG Community Garden (2024) | Maintained a public community garden with regular weekly support.