

Omar Ali Iqbal Davila

Mechanical Engineering

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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.