

# 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

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

## EXPERIENCE

<b>Contaré</b>   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.	
<b>Baker Hughes</b>   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.	
<b>Chambee</b>   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

<b>Daikin</b>   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.	
<b>Daimler Truck</b>   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.