

Rodrigo Gutiérrez Peña

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SUMMARY

Supply chain analyst combining an MSc in Logistics and Supply Chain Management (University of Hull) with a mechatronics engineering foundation. Dissertation develops an AI-integrated digital twin for an automotive Tier 1 export supply chain: GRU neural-network forecasting with NSGA-II multi-objective optimisation under a human-in-the-loop framework. Hands-on with Python and Power BI; automotive industry experience in Mexico; available from January 2027.

EDUCATION

M.Sc. Logistics and Supply Chain Management — University of Hull

Hull, UK | Expected Dec 2026

Course Representative for the MSc cohort; Certificate of Recognition, Hull University Business School.

B.Sc. Mechatronics Engineering — Tecnológico de Monterrey

Monterrey, MX | Expected Dec 2026

Automotive Engineering Program — Steinbeis Transfer Center, Hochschule Esslingen

Esslingen, DE | Feb 2025

RESEARCH & ANALYTICS PROJECTS

MSc Dissertation — AI-Integrated Digital Twin for an Automotive Tier 1 Export Supply Chain

2026

- Designed a digital-twin decision layer for a Mexico-to-international automotive export supply chain, integrating GRU neural-network demand correction with NSGA-II multi-objective optimisation and human-in-the-loop review.
- Built the full Python pipeline on real, anonymised company export data (500+ order records, 59 fields) across the four SCOR function blocks — Deliver on real data; Source, Make, and Return modelled.
- Quantified baseline network performance (98.5% delivery performance; +52.5% demand variability) and generated Pareto-front trade-off analysis to support planner decisions between competing logistics objectives.
- Grounded in a PRISMA-guided systematic literature review and five expert consultations across industry and academia.

Supply Chain Analytics Dashboard (Power BI) — University of Hull

2026

- Built an interactive supply chain performance dashboard end to end, developing the data model and report programmatically (PBIR / JSON).

Import Strategy Report — International Trade & Global Logistics, University of Hull

2026

- Developed an end-to-end import strategy for maize flour into a UK retail distribution centre (Tesco Humber DC), covering sourcing, international routing, and UK import compliance.
- Additional coursework: sustainability packaging analysis (Colgate-Palmolive); NHS Blood & Transplant last-mile logistics.

EXPERIENCE

Green Tech Innovation (GTI) — Design Lead, Speed Prototyping

Saltillo, MX | Jun 2024 – Aug 2025

- Founded and led a multidisciplinary prototyping team for GTI's XPRIZE Wildfire entry; coordinated with process engineering and supply chain teams to align builds with sourcing constraints and deadlines.
- Delivered four flying proof-of-concept prototypes; mentored junior engineers and progressed from summer intern to full-time Design Lead.

Magna CIMS — Engineering Intern, Quality & Process Improvement

Ramos Arizpe, MX | Apr – Jun 2025

- Analysed in-plant processes at a Tier 1 automotive supplier to identify quality-improvement opportunities; delivered a validated proof-of-concept solution recognised by Magna engineers.

Polsa — Engineering Intern, Automation

Saltillo, MX | Aug 2024

- Designed and built an automated material-handling cart (SolidWorks, embedded motion control), streamlining internal material flow and reducing manual handling.

SKILLS & LANGUAGES

Analytics & Data: Python (pandas, GRU neural networks), Power BI (incl. programmatic PBIR), NSGA-II optimisation, demand forecasting, MATLAB, Excel

Supply Chain: SCOR framework, digital twins, delivery performance analysis, import / trade compliance, PRISMA systematic review

Engineering: SolidWorks, automation systems, additive manufacturing, C++

Languages: Spanish (native), English (fluent), German (B2), French (B1, certified)