Luis Edmundo Brena Pantoja

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Entry-Level Professional in Manufacturing, Automation, and Robotics

I am an organized, creative, hardworking, and solutions-oriented professional with a deep understanding of automation principles, manufacturing processes, robotics, and industry trends. My skills include proficiency in ROS2, Python, MATLAB, MS Excel, and SQL. I have been involved in various projects ranging from industrial automation to process improvements and operational restructuring. After a successful career in hospitality and retail, I am now transitioning into the manufacturing and industrial automation industry and seeking entry-level positions.

Education

Johns Hopkins University   *August 2023 - May 2025*
Master's, Engineering Management
- Relevant coursework: Network Models for Operations Research, Artificial Intelligence, Algorithms for Sensor-based Robotics, Finance

Universidad de Lima   *March 2013 - February 2018*
Bachelor's, Industrial Engineering   *GPA: 4*
- Relevant coursework: Industrial Automation, Process Analysis, Electrical Engineering, Industrial Technology, Operations Research I & II

Certifications

Executive Certificate in Management, Innovation, and Technology, MIT Sloan, MA - 2021
SolidWorks Essentials Certificate, SolidWorks, Peru - 2016
Mechatronics, Robotics, and Automation Engineering, TECSUP, Peru - 2013

Professional Experience

CHC - Best Western Franchisee   **Huancayo, JU, Peru**
Hotel Manager – Hospitality   *August 2018 - August 2023*
- Implemented a Revenue Management System and a feature-based quotation standard for events resulting in a 15% increase in total revenue per available room for all business units
- Saw a 6% increase in Gross Margin and 10% in Net Profit Margin after the implementation of Oracle Symphony POS and Inventory Management System by the end of 2022
- Supervised design and execution of a new restaurant and remodeling work in the hotel
- Won a regional bid to house mining employees during the COVID-19 pandemic, which resulted in a 50% increase in revenue for 2020 and 2021
- Led 24 employees in implementing a PMS, SOP 231, and 101 SOP (standard operating procedures) for front office and wait people training.
- Tracked, monitored, and supervised service quality, accounting, operations, and infrastructure improvements

Grupo Oka   **Huancayo, JU, Peru**
Founder   *October 2018 - August 2023*
- Founded a food retail business with total annual revenue of $300K, an average of 1,300 SKUs, and $60K in current assets
- Monitored operations and achieved the city's highest sales in the Specialty Food retail category
- Developed the project and financing strategy to fund the initial development phase with $200,000
- Supervised the legal and technical documentation writing required to open the stores
- Implemented systems for procurement and order optimization to increase predictability and reduce stockouts to < 5%.

Projects & Outside Experience

Design Process Improvement at Intralox   **Baltimore, MD, USA**
Engineering Apprentice | Generative AI   *September 2023 - December 2023*
- As part of coursework requirements, developed a new generative AI and design thinking-based process to increase the output of designs for the Research and Development team
- Created a process using Microsoft Visio and prepared a final presentation for the regional manager to propose incorporating the tool for the R&D team
- Designed and tested a digital application to automate the process using the ChatpGPT API and a process for iterative prompting

Bed Assignment Process Improvement at Johns Hopkins Hospital   **Baltimore, MD, USA**
Operations Analyst Trainee   *August 2023 - September 2023*
- Revamped the communication process in the Emergency Department and the Capacity Command Center.
- Suggested three alternatives to reduce resolution calls, such as simplifying the patient bed assignment to give bed managers more decision-making power, and centralizing the decision-making process.
- Presented our conclusions to the bed assignment management team.

Operational Restructuring at Centrocorp - Honda Motor Official Dealer   **Huancayo, JU, Peru**
Operational Restructuring Manager   *August 2019 - December 2020*
- Maintenance business unit revenue increased by 15% after adding bodywork and painting stations.
- Liquidated dead stock, generating $25,000 in revenue.
- Negotiated a partnership with Valvoline to promote oil-change services, resulting in a 5% revenue increase.
- Closed a managing partnership deal, expecting a 50% increase in annual revenue for 2021.

Skills

Skills: Computer Vision, Tableau, MATLAB, Python, Operations Research, HTML/CSS, Business Analytics, Excel/Numbers/Sheets, Adobe Lightroom, Adobe Photoshop, ROS2, MatLab, C#, C/C++, CAD, Flask, Jupyter, Management, Minitab, MySQL, NumPy, Pandas, Power BI, Postgres, Product Design, Product Management, Ruby on Rails, SolidWorks, Supply Chain Management, Tensorflow, UI/UX Design, Word/Pages/Docs, PLC, Git, CUDA, Visio, Product Design
Languages: Spanish, English