

# Rodrigo Moreno Juarez

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## Experience

### 3D Printing Intern

March 2023 – March 2024

Heineken México

Monterrey, N.L.

- Modeled more than 80 spare parts for bottling line machinery using computer-aided design software (CAD)
- Managed parts inventory daily by leading fused-filament additive manufacturing operations with nine materials
- Measured OEM parts using calipers with up to a 0.1 millimeter precision to perform reverse engineering
- Understood on-site engineering requirements while wearing personal protective equipment to design custom parts
- Reported directly to two engineering leaders using spreadsheets with part print logs and monthly savings graphs
- Achieved **more than 2.5 million Mexican pesos in savings in a year** (~140,000 U.S. dollars) through part printing

### Product Development Engineer (academic project)

September 2023 – December 2023

Protexa XLAB

Santa Catarina, N.L.

- Developed a smart thermometer for refrigeration systems with 48-hour energy and connectivity backups
- Identified innovative feature opportunities and client needs with a multidisciplinary team of 9 engineers
- Implemented agile product development using Scrum: week-long sprints over the course of a 10 week period
- Designed a 3D printing-oriented two-part enclosure with 4 internal PCB mounting points using Fusion 360
- **Built, tested and presented a functional prototype to stakeholders**, including four professors who formed the grading committee, two company representatives and a live audience

### Innovation Consultant (academic project)

March 2023 – May 2023

Questum Mobility

Monterrey, N.L.

- Proposed an innovation project portfolio, consisting of **nine projects** prioritized by **three technological horizons**
- Collaborated with two engineering students to conduct research on current industrial context and conceive projects
- Employed technology monitoring, including S-curves and technology cycles, to create a 10-year roadmap

## Awards

- Valedictorian – Best Average, Major & Class of December 2023 (1500+ graduates)
  - International Diploma (intercultural curriculum) & Honorable Mention of Excellence (Top 5% of graduates)
- Student Development Diploma – Transformative Social Leadership (December 2023)
- NASA Johnson Space Center University – 1<sup>st</sup> Place Martian Habitat & 3<sup>rd</sup> Place Rocket Launch (December 2018)

## Education

### Tecnológico de Monterrey

Monterrey, N.L.

Innovation and Development Engineering – Mechanical Systems | August 2019 – December 2023 | 99/100 Average

### Oregon State University

Corvallis, OR

Aerospace & Mechanical Engineering (On Campus Exchange Program) | March 2022 – June 2022 | 3.78 Institutional GPA

## Others

- **Technical skills:** SOLIDWORKS, Fusion 360, Agile (Scrum), GD&T, MATLAB, Python / C++, Minitab, Excel
- **Certifications:** Certified SOLIDWORKS Professional – Mechanical Design (CSWP)
- **Languages:** English (Pearson Test of English General C2 & TOEFL iBT 114), Spanish (Native), and French (DELFB1)