

# Biomedical Engineering

Bárbara Mondragón Herrada

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## ABOUT ME

Biomedical Engineering with a focus on instrumentation and experience in developing technology-oriented projects in both software and hardware, as well as teamwork and leadership skills for problem-solving.

## ACADEMIC BACKGROUND

2019-2023 **Bachelor's Degree in Biomedical Engineering**  
UNIVERSIDAD IBEROAMERICANA CIUDAD DE MÉXICO

## SKILLS

- **Spanish:** NATIVE.
- **English:** IELTS C1.
- **French:** A2.
- **Software:** PYTHON, JAVA, C, C#, SQL, MATLAB, UNITY.
- **Motion Analysis:** VICON, KINOVEA.
- **3D Modeling:** AUTODESK INVENTOR, BLENDER.

## EXPERIENCE

October 2024  
– Present

### Product Development Engineer

EVENFLO · Kimberly Clark de México

- Development and innovation of new products for the Evenflo category of Kimberly-Clark Mexico.

January 2024 –  
Present

### Thesis

PROJECT INTERN · Ontario Tech University

- Developed a mixed reality system in Unity for heart anatomy training for surgeons.
- Modified and modeled 3D heart parts for printing.
- Integrated hardware into 3D-printed parts to enable recognition in the virtual environment.

June  
2023-May  
2024

### Social Service

PROJECT INTERN · Universidad Iberoamericana CDMX

- Developed a virtual system for training users of mechanical transhumeral prosthetics.
- Created a database of patients and training routines for transhumeral prosthetics.

January 2023-  
December  
2023

### UNAM Scholar

IT ASSISTANT · Instituto de Investigaciones Jurídicas, UNAM

- Managed the digital platforms and social media for the XXII Multidisciplinary Diploma on Family Violence and Human Rights.
- Provided contact with the specialists involved.

August 2022-  
December  
2022

### Wearable Projects Developer

LEADER · Universidad Iberoamericana CDMX

- Implemented and acquired wearables for socially impactful projects in collaboration with Fashion Design students.

January  
2022-June  
2022

### App Developer – COBYD

CO-CREATOR · Universidad Iberoamericana CDMX

- Collaborated in programming a mobile application designed to address emotional issues in the context of the pandemic.

COURSES

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- 2021

**Creation of Macros in Excel**  
UNIVERSIDAD IBEROAMERICANA CIUDAD DE MÉXICO
- 2020

**Mobile App Development Workshop for People with Disabilities (Hell App)**  
CULTURAL CENTER OF SPAIN IN MEXICO

EXTRACURRICULAR ACTIVITIES

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- 2022-2023

**Gender Representative, Biomedical Engineering Student Society**  
UNIVERSIDAD IBEROAMERICANA CIUDAD DE MÉXICO
- 2022-2023

**Member of Flag Football Team**  
UNIVERSIDAD IBEROAMERICANA CIUDAD DE MÉXICO
- 2020-2022

**Education Officer**  
SDG HUB, UN