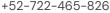




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# Emilio Moreno Ledesma

PHYSICS MAJOR

## **EDUCATION**

## **MAJOR IN PHYSICS**

Faculty of Science, UNAM: 2022-Present

Mexico City, Mexico

### **HIGH SCHOOL**

Campus Toluca, UNITEC: 2019-2021 Toluca, State of Mexico, Mexico

## **ABILITIES**

## **Programming Languages**

- PYTHON: Qiskit, TensorFlow, PyTorch, Pandas
- MATLAB
- MATHEMATICA
- ARDUINOIDE, NEXTION

# Languages

- English (C2)
- Spanish (native)
- Japanese (N2)

## Soft skills

- Collaborative problem solving in research teams at undergraduate and graduate levels
- · Public speaking, conversational skills
- · Diligence, initiative

# REFERENCES

## Dr. Pedro A. Quinto Su

Applied Optics Laboratory, Institute of Nuclear

Mail: pedro.quinto@nucleares.unam.mx

#### Dra. Edna M. Hernández González

Laser Optics Workshop, Physics Department, Faculty of Science

Mail: ednamhg@comunidad.unam.mx

Phone: 55-56-22-4854

## SUMMARY

Junior Physics student at UNAM's Faculty of Science. Self-taught in Quantum Computing, Machine Learning and Data Analysis, mainly using Python. Strong communications and problem solving abilities tested as an intern in the Applied Optics Laboratory and a volunteer in the Laser Optics Workshop and Electricity Workshop at UNAM. Actively raising the standard in student-lead scientific research.

## **EXPERIENCE**

Applied Optics Laboratory, December, 2024 - Present Institute of Nuclear Science (ICN)

Design and construction of optical tweezers arrangements

**Laser Optics Workshop** 

March, 2024 - Present

Volunteer

Design and construction of a DIY spin coater, analysis of thin films with reflectometry and analysis of graphene Raman spectra

**LXVII National Physics Congress** 

October, 2024

**Participant** 

Presentation of a DIY spin coater project

**Electricity Workshop** 

February, 2024 - August, 2024

Volunteer

Design and analysis of the following experiments

- Magnetic field intensity measurements through electromotive force curves
- Construction and characterization of DIY capacitors

**Quantum Antarctic Startup Weekend** 

December, 2024

First place winner

JLPT N2 Certification

November, 2024

**ENALLT - Japanese** 

August, 2023 - November, 2023

Conclusion of the sixth level course (equivalent to N3)

2019 WaniKani

Level 60 conclusion