

Eduardo Mata Ewy

Mechanical Engineering

Personal Info

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Skills

Mechanical Design and Simulation

Python App and Web Development

Computer Vision

Modern Control Systems

Laser Manipulation

Communication Skills

IT Knowledge

Public Speaking Skills

Languages

English

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Native

Spanish

■■■■■
Native

German

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Basic

Experience

2021-01-

2021-08

Control and Automation Engineering Internship

LaserON , Vigo, Spain

- Developed a monitoring system that involved computer vision to extract properties of a molten metal pool in an additive manufacturing process.
- Designed a PID controller for a Laser Cladding process, in an additive manufacturing station.
- Responsible for the development of a desktop app that integrated both the monitoring and the control of the cladding process through a user interface.

Education

2016-09 -

2021-09

Mechanical Engineering, Universidad de Vigo

- **Concentration:** Machinery
- Received **12 distinctions**

Relevant Coursework:

- Vibration of Mechanical Systems
- Engines and Thermal Machines
- Laser Technology
- Materials and technologies in mechanical manufacturing
- Hydraulic Machine Design

Software

Excellent: SolidWorks, Python, Matlab/Simulink, Microsoft Office

Very Good: AutoCAD, PyQt, Numpy

Good: OpenCV, Django/Flask, Html5/CSS, CNC

Basic: SimWise, CatiaV5, Fusion360, VisualBasic, CYPE, FluidSIM

Projects

2020-2-

2020-5

Design of a fuel station's marquee

Design of the structure and testing with external forces (wind, snow, etc.)

2020-10-

2020-12

Data extraction and analysis through python web scraper

Extraction of Caterpillar Inc. engine information for analysis in Excel

2021-01-

2021-05

Design of a pneumatic circuit for an autoclave's automatic door

Achievements

2016

Bronze Medal at the National Physics Olympiad

2012

Competed in the National Math Olympiad in 8th Grade

Interests

Weightlifting

Reading about physics and programming