Eduardo Mata Ewy

Mechanical Engineering

Personal Info

Address

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E-mail

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Linkedin

Eduardo Mata Ewy

Github

github.com/EddieMataEwy

Online Portfolio

eddiemataewy.github.io

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 — Native

Spanish — Native

German — 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

2017-09 -
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

2017	Bronze Medal at the National Physics Olympiad
2013	Competed in the National Math Olympiad in 8th Grade

Interests

Weightlifting
Reading about physics and programming