



Leonardo Anyelo Rodriguez Martinez

Master's student in
artificial intelligence and
robotics

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Date of Birth:
26.04.1993 In Colombia



Education

3/2024 - Present	Master program Artificial Intelligence and Robotics (M.Sc.) Hochschule Hof, Germany
2/2010 - 10/2015	Mechatronics Engineering Universidad de San Buenaventura Academic Achievements: <ul style="list-style-type: none">- Achieved the 3rd position out of 37 graduates for having the highest GPA in the program.- Honorable mention received in the 6th semester for maintaining an exceptional GPA.
11/2023	Additional courses: Coursera by Meta: Back-End Developer Professional Certificate Coursera by IBM: Python for Data Science, AI & Development Platzi: Machine learning with Python
10/2022	Definitive HTML and CSS course
7/2023	Backend Development career with Python and Django
4/2023	Git and GitHub Professional Course
2/2023	
8/2022	



Knowledge and interests

Foreign languages	Spanish: (mother tongue) English: B2-C1 German: B1-B2
Hobbies:	Reading, lifting weights, playing guitar and playing video games.



Work experience

Robotics and programming Teacher at Montessori British School (09/2021 - 31/01/2024)

- Taught robotics classes in English to high school students from 6th to 11th grade.
- Taught programming languages: Python, C, C++, Java and JavaScript.
- Design and creation of electronic circuits.
- Implementation and development of the program to teach the languages of Python and JavaScript to 10th and 11th grade students.
- Development of a program capable of automatically submitting over 700 grades from an Excel spreadsheet to the school platform in less than 10 seconds through an API, streamlining and significantly reducing the time required for the manual grade submission process.
- At the same time, I have been working on different programming projects, developing scripts to automate processes, developing APIs and web pages focused on backend development.

SOFTWARE MANAGEMENT

Python
Java
C/C++
Visual studio code
Git
Github
PyTorch
Django
FastAPI
Flask
Arduino
Eclipse
NetBeans
Raspberry Pi 3
Pic C
Dev C++
MicroC PRO
Labview
Matlab
MPLAB
Solid edge
Solid Works
Autodesk Inventor
AutoCAD
Proteus
Festo
fluid sim
step7
Codesys
Unity
Adobe Illustrator
Vex IQ Robots
Mbots
RobotC

Projects

<https://github.com/Engleonardorm7>

Portfolio

<https://portfolio-lvnm.onrender.com/>

Design Engineer at Emprecol Mechanize (05/2019 - 09/2019)

- Mechanical design in CAD software for the manufacture of forming and sealing molds for pharmaceuticals.
- Design of plans in Solid Works for the manufacture of mechanical parts.
- Development of a fatigue study for mechanical reinforcements.

Mechatronics Engineer at Terra Group Consultants (01/2019 - 05/2019)

- Corrective and preventive maintenance of equipment for the measurement of resistivity in the ground (tellurometer).
- Carried out the manipulation and data collection of the equipment for the measurement of resistivity in the soil.
- Design and manufacture of electronic circuits for managing soil resistivity equipment.

Project Engineer, Entrepreneur at BH2 Robotics (04/2017 - 05/2019)

- Electronic and mechanical design.
- Microcontroller programming in Python, C, and C++.
- Design of electrical circuits, assembly of surface circuits.
- Robot appearance design.
- Mobile application design, and development of robots for interaction with people.

Assistant Project Engineer at Serviclora Group (05/2016 - 03/2017)

- Project design, simulation, and costing of projects.
- Drawing plans in Autodesk Inventor, AutoCAD, and Solid Works
- Preparation of mechanical and electrical drawings, automation, programming, and preparation of equipment operation manuals.

Electronic Technician at Security Access (11/2015 - 05/2016)

- Installation of fences, issuing and verifying machines for parking cards.
- Preventive and corrective maintenance of ATMs, checkpoints, and parking machines in general.
- Installation of cameras, maintenance of computers and printers.
- Microcontrollers programming.

Assistant of Design and Development Area at PELPAK (07/2014 - 02/2015)

- Assisted in programming diagrams.
- Design of mechanical parts, and automation processes, with a focus on control of three-phase motors.



Hof, 16.6.2024