

MAXIMILIANO ROJAS LEMA

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Electronioc Enigeening / Master of Engineering Sciences

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- Know me more and explore my projets here: www.magical-engineering.com

SKILLS

R&D in Robotics

R&D in Machine Learning

Python | SQL

3D CAD Design (Fusion 360)

Robot Prototyping

PCB Design

Robot Simulation (Isaac Sim)

Deep Learning

Machine Learning

Teamwork

EXPERIENCE

Assistant Robotics Developer | PUCV

Dec 2022 - Jan 2023

- Chile
- Designed a humanoid robot for interaction with children with autism spectrum disorder (PUCV university research project).

Assistant Electronic Developer | Valparaíso Makerspace

Sep 2020 - Dec 2020

- Chile
- Designed didactic experiences for introducing electronics.
- Technical assistant for Fondecyt (I+D) project: "New challenges for education in Chile: Support for the independent life of adults with intellectual or developmental disabilities" (1190789).

LANGUAGES

Spanish: Native

English: intermediate / Fluent

HOBBIES

Reading: Science fiction and biographies.

Sport: BodyCombat

Music: Learning piano

EDUCATION

Scientific Journal Article Published Q2 WoS | PUCV

= 2022

- International
- Special Issue "Automation Control and Robotics in Human-Machine Cooperation".
- "Easy-to-Use Deep Reinforcement Learning Library for AI-Based Mobile Robots for Isaac Sim" Applied Sciences 12, no. 17: 8429.
- https://www.mdpi.com/2076-3417/12/17/8429

Master's Degree in Engineering Sciences, Electrical Engineering Mention **I PUCV**

= 2020 - 2022

- Chile
- Thesis: "Easy-to-Use Deep Reinforcement Learning Library for Al-Based Mobile
- Grade: 7.0 (scale 1 to 7).
- Recognition: Summa Cumme Laude.

Degree in Electronic Civil Engineering | PUCV

= 2015 - 2021

- Chile
- Thesis: "Creation of a Service Robot Platform for Deep Learning and Robotics Appli-
- Grade: 7.0 (scale 1 to 7).
- https://hackaday.io/project/181886-2021-aina-humanoid-plataform-ros-robot.

Assistant Student | Laboratory of Instrumentation and Electronic Systems (LABSEI) PUCV

= 2018 - 2020

Chile

- Control prototype for robotic surgery simulation.
- https://hackaday.io/project/172262-2019-robotic-surgery-tool-and-simulation

Assistant Student | PUCV AI and Robotics Laboratory

= 2015 - 2017

Chile

- Bluetooth control for ROS.
- https://hackaday.io/project/171786-2020-ros-bluetooth-controller-prototype
- SMD circuit charger for 3.3V batteries.
- https://hackaday.io/project/171723-2020-make-every-3v3-device-rechargeable
- Robotic hand controlled by cameras.
- https://hackaday.io/project/172118-2016-robotic-hand-leap-motion