

MAXIMILIANO ROJAS LEMA

Electronioc Enigeening / Master of Engineering Sciences

- @ maximiliano.rojas.lema@gmail.com
- **+**56 979728492
- in www.linkedin.com/in/maximiliano-alonso-rojas-lema-bb214a224/
- www.magical-engineering.com

SKILLS

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

LANGUAGES

Spanish: Native

English: intermediate / Fluent

HOBBIES

Reading: Science fiction and biographies.

Sport: BodyCombat Music: Learning piano

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).

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 Al-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 | PUCV

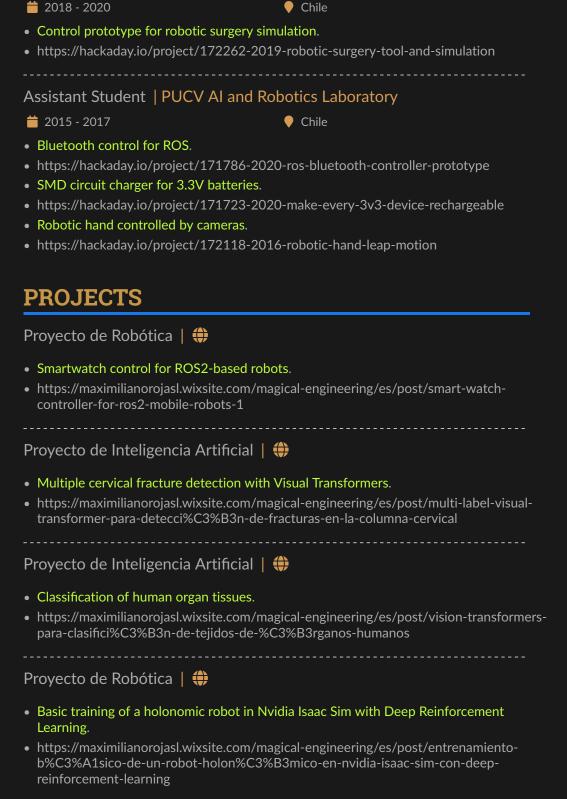
= 2020 - 2022

- Chile
- Thesis: "Easy-to-Use Deep Reinforcement Learning Library for Al-Based Mobile Robots".
- 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 Applications"
- 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 Sys-

tems (LABSEI) PUCV

Robotics Project | #

- Holonomic Robotic Base based on ROS2 controlled with a video game controller.
- https://maximilianorojasl.wixsite.com/magical-engineering/es/post/base-rob%C3%B3tica-holon%C3%B3mica-basa-en-ros2-controlada-con-mando-de-videojuego