

LEONARDO ACHA BOIANO

Mechatronics Engineer

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📍 Basel, Switzerland • 🇪🇺 EU Nationality (B permit)



Summary: Mechatronics engineer with professional experience in robotics, embedded systems, and product design. Skilled in developing innovative solutions for complex engineering challenges, with a strong track record in problem-solving, teamwork, and contributing to advanced technology projects in international environments.

WORK EXPERIENCE

Robotics Engineer

cryoWrite AG

Aug 2025 - Present • Basel-Stadt, BS, Switzerland

- Developing and maintaining **ROS2** robotic systems, including concurrent actions and hardware integration
- Performing on-site system installation, servicing, and preventive maintenance for deployed client systems

Work GitHub: github.com/leonardoAB-cw

Robotics Intern

Feb - Jul 2025 • Basel, Switzerland

- Spearheaded the rollout of a company-wide documentation strategy in **Confluence** for internal knowledge sharing

Reliability Testing and Hardware Design Intern

Lumiphase AG

Aug 2024 - Jan 2025 • Stäfa, ZH, Switzerland

- Implemented new test methods, including instrument selection, integration, and coding measurement routines
- Designed **PCBs** for sample fixation and electrical routing
- Performed lab operations: instrument setup, hardware installation, and calibration routine development

Hardware Engineer

Mobi Latam

Jun - Jul 2024 • Santa Cruz, SC, Bolivia

- Facilitated product development and logistics coordination with Chinese business partners

Hardware Engineer Intern

Jan - Jun 2024 • Santa Cruz, SC, Bolivia

- Assisted the tech team in integrating **MQTT** and **CAN-based IoT** batteries into the existing workflow through APIs
- Designed and prototyped solenoid actuators and control **PCB** tailored to secure electric motorcycles' batteries

Mechanical Design Intern

Reality Herramientas Creativas

Mar - May 2023 • Santa Cruz, Bolivia

- Developed rapid prototypes to validate and iterate on innovative engineering designs
- Created detailed component designs using **SolidWorks** and CAD software for manufacturing

SKILLS

Hard Skills: Python, MATLAB, C/C++, Verilog & VHDL, Git/GitHub, LaTeX, STM32, ESP32, ROS2, FreeRTOS, PCB Design, KiCad, Proteus, Altium, IoT, BLE, CAN, I2C, LTSpice, QucsStudio, Breadboarding, Soldering, 3D Printing, SolidWorks, Fusion 360, AutoCAD, DFMA, GD&T, CNC Lathe, Laser Cutting, FluidSIM, PLC, Grafset, P&ID, Tia Portal, Ladder, FBD

Soft Skills: Time Management, Lifelong Learning, Adaptability, Discipline, Networking, Documentation, Drawing

EDUCATION

B.Eng. Mechatronics Engineering **2020 - 2024**

San Pablo Bolivian Catholic University GPA 3.7/4

Santa Cruz, Bolivia

Graduated with Honours

President of the Scientific Society, term 2023-2024

ACHIEVEMENTS

Champion | ICPC Regional Contest | August 2024

Led a 3-person team to 1st place in Programming Contest

Diploma of Honour | Apr 2024

Granted 2nd place in Mechatronic Eng term 2-2023

Certified SOLIDWORKS Associate (CSWA) | Nov 2023

Validates proficiency in 3D CAD modelling

Diploma of Honour | Sep 2023

Granted 2nd place in Mechatronic Eng term 1-2023

Excellence Scholarship | Oct 2022

1st place in Mechatronic Engineering term 1-2022

Excellence Scholarship | Apr 2022

1st place in Mechatronic Engineering term 2-2021

Excellence Scholarship | Nov 2021

1st place in Mechatronic Engineering term 1-2021

Diploma of Honour | May 2021

3rd place in Mechatronic Eng term 2-2020

Certificate of Achievement | Rotary D.4690 | 2019

Youth Exchange Ambassador to Canada 2018-2019

LANGUAGES

Spanish (Native)

English (Fluent)

German (A2)

Italian (A2)