

LEONARDO ACHA BOIANO

Mechatronics Engineer

✉ leonardoacha@hotmail.com

☎ (+41)76 220 45 78 ♀ Basel, Switzerland

🌐 [linkedin.com/in/leonardo-acha-boiano](https://www.linkedin.com/in/leonardo-acha-boiano)

🇪🇺 EU Nationality (B permit)

📄 github.com/leonardoAB1

<https://github.com/leonardoAB-cw>



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

August 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.

Robotics Intern

February - July 2025

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

Reliability Testing and Hardware Design Intern

Lumiphase AG

August 2024 - January 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

Hardware Engineer Intern

January-Jun 2024

- 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.
- Facilitated product development and logistics coordination with Chinese business partners.

Mechanical Design Intern

Reality HC

March-May 2023 ♀ Santa Cruz, SC, Bolivia

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, Grafcet, P&ID, Tia Portal, Ladder, FBD.

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

EDUCATION

B.S. in Mechatronics Engineering 2020 - 2024

San Pablo Bolivian Catholic University (SC) GPA 3.7/4

♀ Santa Cruz, SC, 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 career 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 career term 1-2023

Excellence Scholarship | Oct 2022

1st place in Mechatronic Engineering career term 1-2022

Excellence Scholarship | Apr 2022

1st place in Mechatronic Engineering career term 2-2021

Excellence Scholarship | Nov 2021

1st place in Mechatronic Engineering career term 1-2021

Diploma of Honour | May 2021

3rd place in Mechatronic Eng career term 2-2020

Certificate of Achievement | Rotary District 4690 | 2019

Rotary Youth Exchange Ambassador to Canada 2018-2019

LANGUAGES

Spanish (native)

Italian (A2)

English (fluent)

German (A2)