

CURRICULUM VITAE

Name: Jaime Alonso Loaiza Delgado

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EDUCATION

March 2017 – December 2021:

School of Mechatronics Engineering, Universidad Peruana de Ciencias Aplicadas, Lima, Peru

- Program title: Bachelor in Mechatronics Engineering with a Specialization in Industrial Automation
- Level of qualification: Bachelors
- Nominal duration of Studies: 5 Years
- Position and GPA: Graduated second of my class with a final grade of 17.1/20
- Focused on industrial robotics, bio-mechatronics, and automation.
- Bachelor's thesis: Developed an adaptive robotic gripper for complex geometry manipulation.

March 2005 – December 2016:

Newton College, Lima, Peru

- GPA: Graduated with a final grade of 17.6/20
- Focused mainly on mathematics, computer science and physics.
- Also good at social sciences, theory of knowledge and very dedicated to music (saxophone player).
- Outstanding achievements: Recognized as top of my class in 1st, 2nd, and 4th year of high school. Current record holder of 3/5 science competitions. Member of the school band and orchestra as well as the official swimming and basketball team.

WORK EXPERIENCE AND INTERNSHIPS

August 2024 – Present:

Mechatronics Engineer, Rheonics GmbH

- Creation of CAD models and drawings: Creating 3D models and drawings for the manufacturing of industrial accessories for sensor installation. Creation of simplified 3D models and drawings for public distribution.
- Customer assistance troubleshooting industrial sensors: Assisting customers with sensor selection and troubleshooting. Helping select the correct sensor configuration based on the customers' process conditions and requirements.
- Creation of internal tools for data analysis and quoting: Creation and deployment of data visualization and processing tools that optimize sensor data troubleshooting and quoting.
- Redaction of technical and support articles: Creation and publication of technical and support articles that provide insight or solutions to common problems or considerations when working with Rheonics' sensors.
- Internal and external technical training: Carried out technical training internally and externally with company partners and new hires.

March 2023 – Present:

Professor at the Laboratory of Innovation, Toulouse Lautrec

- Developed innovative technological projects with multidisciplinary teams of students.
- Managed to produce 22 projects involving electronics, IoT, 3D printing, some of which were submitted to national and international contests.
- Developed skills mentoring interdisciplinary teams, applying project development methodologies and expanded my experience in areas such as VR and AR.

December 2021 – March 2022:

Internship at KTH Royal Institute of Technology

- Selected among hundreds of students from all around Peru to take part in REPU Nanotech 2022.
- Developed a pipeline for analysis of muscle excitation under dynamically consistent conditions using the Rajagopal model and OpenSim.
- Obtained a solid understanding of lower limb biomechanics through simulation.

December 2020 – August 2024:

Applications Engineer, Andes Technology SAC

- Developed 17 project proposals from 2020 to 2023, effectively accomplishing all client objectives and needs.
- Provided training to interns and clients in areas of robotics programming, 3D printing, laser cutting and mechanical assembly.
- Led the R&D team, creating quick demos for proof of concept and raising client interest.

ONLINE COURSES, SUMMER SCHOOL, WORKSHOPS

January 2020, Mastering Programming with MATLAB – Vanderbilt University:

- Learned advanced tools for code optimization, deepened my knowledge in Object Oriented Programming, learned to use Live Scripts and develop applications with App Designer.

June 2020, SQL For Data Science:

- Learned basic SQL for database building and management. This was necessary as part of a project involving AI and real time data capturing and management.

COMPUTER LANGUAGES and SOFTWARE TOOLS

C++, Python, MATLAB with Simulink, Microsoft Office, KUKA Robot Language, OpenSim, ROS2

LANGUAGES

- **SPANISH** (native)
- **ENGLISH** (academic C2) IELTS 8,5 Overall, 9 Listening, 7,5 Writing, 8,5 Reading, 8,5 Speaking
- **FRENCH** (level A1)
- **GERMAN** (level A2)

VOLUNTEERING AND ADITIONAL ACTIVITIES

March 2018 – December 2019:

- **Volunteer at CreaCode** – NGO focused on teaching coding and computational thinking to developing communities.

March 2019 – December 2021:

- **Student Mentor** – Mentored and assisted students from IEEE groups in multiple projects involving electronics, 3D modelling and mechanical design.

August 2023 – December 2023:

- **Project Mentor** – In charge of mentoring 5 groups in the Innovation Laboratory Challenge held by Pontificia Universidad Católica del Perú (PUCP).