

Ignacio Andrés Pérez Rojas

Electrical Engineer (Honours degree)

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Detail-oriented Electrical Engineer with hands-on experience in system configuration, cabling, and IT hardware for industrial and renewable energy applications. Skilled in technical documentation, CAD-based design, network infrastructure, and project coordination. Strong ability to work in cross-functional teams, ensuring smooth system deployment and delivery. Fluent in English (C1) and actively improving German.

PROFESSIONAL EXPERIENCE

WOLKE SpA (Novatronic SpA)

Automation & Control Systems Intern | Nov 2024 – Present

November 2024 – Present

- Successfully implemented telemetry for a remote power transmission system, enabling real-time monitoring of an induction heating machine for metal spears in oxy-cutting.
- Assisted in hardware selection (PLCs, sensors, network devices), ensuring compliance with electrical safety standards.
- Managed and optimized the database structure, utilizing Teams, SharePoint, Excel, Word, and permissions management to enhance collaboration and data security.

Copenhagen Infrastructure Service Company (CISC) SpA

Intern - Project Management Office

August 2024 – November 2024

- Contributed to a large-scale green hydrogen project, focusing on renewable energy solutions including wind power generation and energy storage (electrolyzers, battery systems, hydrogen storage).
- Utilized Excel (macros, pivot tables) for data management, and collaborated with a team of professionals to develop cutting-edge sustainable solutions for energy production.
- Assisted in technology scouting and feasibility analysis, identifying key opportunities for process optimization and evaluating the integration of emerging technologies in large-scale projects.

Pontifical Catholic University of Chile

Teaching Assistant (optimization)

January 2024 – February 2024

- Led student teams to solve complex optimization problems using Python, facilitating peer-to-peer learning and ensuring successful project completion.
- Facilitated peer-to-peer learning and provided actionable feedback, ensuring successful completion of group projects.

TECHNICAL SKILLS

- CAD & Software: AutoCAD, Visio, MATLAB, Python (Pandas, NumPy), C (Microcontrollers)
- Power & Renewable Energy: Grid Code Compliance, Wind Power, Green Hydrogen
- Microsoft 365: Advanced Excel (macros, pivot tables), PowerPoint, Word.

EDUCATION

Pontifical Catholic University of Chile	I Electrical Engineering honors Degree I Santiago, Chile	2024 – 2025
Pontifical Catholic University of Chile	I Electrical Engineering Bachelors I Santiago, Chile	2019 – 2024
Monash University	I Bilateral Exchange Program I Melbourne, Australia	2023

CERTIFICATIONS

- English Certification (C1) – TOEFL iBT (96)
- Level 1 University of Chile German Certificate (A1)

October 2022
January 2025

EXTRACURRICULAR ACTIVITIES

TDI (Winter Works) ***Construction Leader – Engineering UC***

La Araucanía Region, Chile
July 2022

Responsible for organizing and coordinating a team of ten volunteers to build a greenhouse and a water tower within ten days for vulnerable families in the Araucanía Region.

- Successfully led a team of volunteers to build a greenhouse and water tower for vulnerable families, utilizing strong leadership, teamwork, and communication skills to meet project deadlines.
- Developed and improved coordination between team members with varying levels of experience, ensuring the timely completion of the construction projects.

ADDITIONAL INFORMATION

- Chilean National ID (RUT): 20.299.733-3.
- Date of Birth: January 19, 2000.
- Nationality: Chilean.
- Driver's License: Class B – Willing to travel nationally and internationally.
- Languages: Native Spanish, Advanced English, and Basic German (A1).
- Other Interests: Sports, technology, cultural exchange and travelling.