



Nicolás Morón Vallejo

Mecatronic Engineer

Contact

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Education

- **Web Full-Stack development and computer science, [2024], Bootcamp Academlo**
- **Bachelor's degree in Mechatronics Engineering, [2013 - 2019], University Bolivian Catholic "San Pablo"**

Technical Skills

Full-stack development experience,
Web and automatization.
Knowledgeable in:

- Python
- JavaScript
- HTML/CSS
- Git
- C++
- C#
- MySQL
- PostgreSQL
- Flask
- Django
- Matlab
- AutoCad (2D-3D)
- Solidworks
- TiaPortal

Soft Skills

English proficiency
Motivated
Willing to learn
Communication skills
Ethic values
Leadership
Adaptability
Team worker

As a highly motivated mechatronic engineer with a passion for making a positive social impact, with ability to easily adapt and seek for new opportunities to developed my skills. I excel in leadership and team collaboration. I am excited to work on a team where everyone's skills contribute to to the team's success

Work experience

04-2024 - Present

CORPORACIÓN SICCAD SRL – Mechatronic engineer

- Led projects in electrical, mechanical, electromechanical, and automation installations.
- Coordinated and supervised preventive and corrective maintenance plans.
- Design and implement mechanic and photovoltaic projects.

01/2022 – 01/2024 (1 year and 11 months)

ULTRARAIL SRL – Maintenance Supervisor

- Supervised preventive and corrective maintenance plans for critical equipment.
- Optimized operational efficiency through the implementation of technical improvements.
- Coordinated with external suppliers to ensure the accuracy and performance of the equipment.
- Designed civil and electrical plans with precision to meet project specifications.
- Prepared detailed reports and documentation using industry-standard tools to ensure compliance with quality standards.

07/2020 – 11/2022 (4 months)

ELECTROTECNIA INDUSTRIAL – Maintenance engineer

- Developed automation scripts and optimized industrial processes through PLC programming.
- Developed and implemented electromechanical maintenance projects.
- integrated maintenance programs and monitored equipment reliability.
- Troubleshoot issues in electrical, mechanical, and automated systems.

12/2019 – 06/2020 (4 months)

01/2021 – 01/2022 (1 year)

INTERVIAS SUCURSAL BOLIVIA - PRODUCTION AND QUALITY MANAGER

- Applied quality management techniques and tools to ensure the consistency and reliability of automated processes.
- Coordinated maintenance operations to ensure the continuous functioning of systems.
- Supervised the implementation of preventive maintenance plans.

Language

- Spanish: Native
- English: Profesional B2

03/2019 – 10/2019 (7 months)

TEC TECHNOLOGY FOR EFFICIENCY - SOFTWARE DEVELOPER

- Specialist in industrial instrumentation.
- Installation of automation and industrial control equipment.
- Installation and programming of weather stations.
- Installation of geotechnical instrumentation.
- Software development

03/2019 – 10/2019

TEC Technology for efficiency - Technical asistent

- Developed sales software for solar panels using C# and .net.
- Install meteorologic stations.

04/2018 – 11/2018

TEC Technology for efficiency

Thesis student

- Developed systems for fault detection in solar panels, utilizing Python for automation and Matlab for data analysis.
- Utilized Python libraries for processing thermographic images to identify faults in photovoltaic systems.

International articles published

- **Solar Panel fault detection system using thermographic images**, [02/2020], published in the Latin America Sustainable Development of Energy Water and Environment System (**La SDEWES**)
- Didactic photovoltaic energy bench, [02/2020], published in the Latin America Sustainable Development of Energy Water and Environment System (**La SDEWES**)

Completed Courses

- Python University – From Zero to Expert, 2024, Udemy
- Web Development University – FrontEnd Web Developer, 2024, Udemy
- Project management in Spanish – project management – 35hrs, 2023, udemy
- LOGISTICS: INVENTORY ADMINISTRATION AND MANAGEMENT, 2023, UDEMY
- Implementation of occupational health and safety management systems (sgsyst) nb/iso 45001:2016, 2022, ibnorca
- Basic Microsoft Project. ESCALA job training school. 2021. 10 hours.
- Design and simulation of micro photovoltaic plants with PVSyst, 2020, IPLAT, Energy
- Industrial safety and environmental supervisor program according to NB/ISO 45001:2018 and NB/ISO 14001:2015, 2020, IBNORCA.
- Macros and VBA for Excel from scratch, 2020, UCADEMY
- Solidworks 2020, 2020, UCADEMY
- Safety and Electrical Risk According to NFPA 101, 2019, IBNORCA
- Course – Workshop on grounding systems, 2019, Solaning Training
- AutoCAD 2D and 3D: Basic and Intermediate, 2019, SDQ Training Center
- Use of Solar Energy in the Tropics, 2019, IPLAT, Energy
- Grounding Systems Workshop, 2019, Solaning
- Advanced PLC and HMIs, 2016, Wegtron SRL
- Trends in the use of Electricity in the Urban Area, 2018, Energy.
- Photovoltaic Energy and Solar Thermo in Construction and Urban Design, 2017
- Cochabamba Construction Chamber, FEICOBOL, Departmental Chamber of Industry. · Wind, Photovoltaics, Grid Management, 2017, Energy, SES Germany.
- Participation in the GRAND PRIX SOLAR COCHABAMBA, 2016, Energy.
- Manufacturing of helical, spur and rack gears, 2015, INFOCAL.
- Industrial robotics and nano robotics, 2015, Universidad Mayor de San Simón