

VICENTE GONZÁLEZ BUGUEÑO

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SUMMARY

Mechanical engineer prepared to evaluate machine performance in technical aspects such as vibrations, with knowledge of standards related to mechanics, including water and gas piping, and KPI calculation. Experienced in executing projects involving welding and metal sizing. Committed to the availability of industrial machinery and the pursuit of maintenance-related objectives.

EDUCATION

Mechanical engineering

University of La Serena

March 2017 – December 2024

La Serena, Chile

- Design and management of mechanical projects.
- Research and application of theoretical fundamentals of mechanics.
- Use of engineering software tools.
- **Thesis:** Force predictions in the micro-milling process of copper.

SKILLS

Site estimation of solar radiation

Renewable energy resources

May 2025

Book

- Estimate energy per solar panel based on location.
- Compare different tilt angles of solar panels.

Measurement and evaluation of machine vibration

ISO 20816

March 2025

Standard

- Process shaft vibration measurements.
- Evaluate severity using RMS velocity and peak displacement.

Industrial maintenance and sustainability

University of La Serena

July 2024

La Serena, Chile

- Calculate mean repair times and mean time between failures.
- Determine Weibull reliability based on failure history.

SOFTWARE

Report writing: Microsoft Office (Medium), LaTeX (Advance).

Mechanical design: Inventor (Advance), Python (Advance).

Technical drawing: Inventor (Medium), SolidWorks (Medium), AutoCAD (Medium), Revit (Basic).

Scheduling: Microsoft Project (Basic).

LANGUAGES

English: Speaking (Advance), writing (Advance)

Spanish: Speaking (Native), writing (Native)

CERTIFICATIONS

Mechanical engineer

University of La Serena

March 2025 - ∞

Drivers license

Chilean government

January 2017 - July 2029