

VICENTE GONZÁLEZ BUGUEÑO

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SUMMARY

Mechanical engineering specialized in maintenance planning and project design, with focus on workplace safety and knowledge of standards related to mechanical engineering, such as water piping, gas piping, vibrations, and KPI equations. Experienced in project execution involving metal welding and material dimensioning. Highly committed to machine availability and the pursuit of objectives related to industrial maintenance.

EDUCATION

Intern and thesis student

University of La Serena

July 2023 - December 2024

La Serena, Chile

- Research cutting forces during micro-milling processes.
- Predict forces using vibration analysis and linear regression models.
- Use Python in engineering problems.
- Determined operating parameters for micro-milling.

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.

SKILLS

Measuring solar radiation

Renewable energy resources

May 2025

Book

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

Measurement and evaluation of machine vibration

ISO 20816

March 2025

Book

- 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