

# 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

### Solar panels sizing

*Renewable energy resources*

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

### Vibration assessment

*ISO 20816*

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

### Maintenance prioritization

*EN 15341:2007*

- 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**