

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.

EXPERIENCE

Intern and thesis student

July 2023 - December 2024

University of La Serena

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.

EDUCATION

Mechanical engineering

March 2017 – December 2024

University of La Serena

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

March 2025 - ∞

University of La Serena

Drivers license

January 2017 - July 2029

Chilean government