

# CARLOS VILLALOBOS

*Civil Industrial Engineer*

## Contact information

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## Personal profile

I am a Civil Industrial Engineer with over 20 years of experience managing high-value infrastructure and maintenance projects. My expertise spans strategic planning, contractor management, and sustainable practices, ensuring compliance with safety, quality, and budget constraints. With a hands-on leadership approach, I drive operational efficiency through data-driven decision-making. SAP, advanced Excel, and Power BI.

I have technical expertise in NZS 3910 standards, project management, and risk assessment, along with extensive experience in materials selection, procurement, and lifecycle management. My deep understanding of supply chain challenges enables me to optimize logistics, inventory levels, and improve lead times, ensuring seamless project execution. I believe in leaving a meaningful legacy that enhances the quality of life for the community. As a member of Engineering New Zealand and MESNZ, I am committed to sustainable development, delivering cost-effective, resilient infrastructure solutions that enhance community well-being. I am dedicated to continuous learning and integrating New Zealand's environmental and community goals into my projects.

## Work experience

*Auckland, New Zealand:*

- Construction Technician at Freestyla, Auckland | February 2024 – Present.
- Construction Technician at Buildhub, Auckland | July 2022 – February 2024.

*Antofagasta, Chile:*

- Maintenance Contracts Engineer at BHP Escondida | August 2019 – April 2022.
- Maintenance Planner at BHP Escondida | March 2013 – August 2019.
- Maintenance Scheduler at BHP Escondida | July 2011 – March 2013.
- Maintenance Supervisor Mechanic at BHP Escondida | July 2006 – July 2011.
- Maintenance Mechanic at BHP Escondida | January 1996 – June 2006.

*Key Achievements*

- Budget Optimization: Managed contracts worth \$860M USD, delivering \$43M USD in savings through strategic planning and contractor performance management.
- Downtime Reduction: Reduced project timelines by 12% via efficient scheduling, resource allocation, and stakeholder engagement.
- Resource Efficiency: Improved lead times for spare parts and critical resources by 20%, streamlining supply chain processes and ensuring timely availability for project needs.
- Sustainability: Implemented energy-efficient technologies in pumping systems, aligning with sustainability goals, achieving a 70% reduction in water consumption and a 10% reduction in energy usage.

## Training and qualifications

- Civil Industrial Engineer, Universidad La República, Chile.
- Bachelor Science of Engineering, Universidad La República, Chile.
- Essential Skills for Engineer (Human Resources), Delf University of Technology, Netherlands.
- Industrial Mining Maintenance Mechanic, British Columbia Institute of Technology, Canada.
- Management of Risk, 5 Whys, RCA and Defect Elimination Techniques, PFMEA and Failure Mode Analysis, BHP Billiton, Chile.
- SAP: (1SAP, Work Order Resource Organizer, Work Management), BHP Billiton, Chile.
- Height Safety and EWP Certifications, ACT Safety, New Zealand.
- Reliability-Centred Maintenance, BHP Billiton, Chile.

## Other skills

- Languages: Native Spanish, IELTS certified in English, and interested in learning Te Reo Māori.
- Maintenance and Planning: Skilled in maintenance planning, scheduling, and asset strategy development. Proficient in risk assessment, hazard management, and digital reporting.
- Health and Safety: Experienced in SWMS, JSA. Certified Health & Safety Representative (HSR).
- Technical Proficiency: Advanced in SAP, MS Project, Power BI, and business intelligence tools. Proficient in project management principles and methodologies.
- Leadership: Strong team leadership skills with experience managing high workloads under pressure.

## Interests and hobbies

**Exploring and keeping active:** I enjoy spending time with my family, discovering new landscapes, and connecting with nature. I also love taking weekend trips to nearby towns. Additionally, my daily bike commute allows me to appreciate the urban scenery and enjoy the beautiful views this city has to offer.

**Technology enthusiast and aspiring educator:** Outside of my professional work, I enjoy satellite tracking, amateur radio with my call sign CE1CVI, and microcontroller programming. I aspire to dedicate time in the future to teaching STEAM subjects (Science, Technology, Engineering, Arts, and Mathematics), inspiring curiosity and innovation in children and young people.

**Author of Technical Publications:** I am the author of several books available on Amazon, reflecting my commitment to education and continuous learning. Some of my titles include:

- "Key Aspects of Contract Management: Strategies and Practices" [2020]
- "Aspectos Claves de la Administración de Contratos: Segunda Edición" [2024]
- "Aspectos Claves de la Administración de Contratos: Identificando Estrategias y Prácticas" [2024]

## References (by request).

- Peter Shaw, Site Engineer, McConnell Dowell, New Zealand
- Logan Forbes, Foreman, McConnell Dowell, New Zealand.
- Pedro Campos, Senior Contracts Engineer, BHP Escondida, Chile.