

Juan Arevalo Ruiz
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PROFESSIONAL SUMMARY

Bilingual metallurgical engineer and data-driven product-support specialist with **15 + years** helping open-pit mines optimise Caterpillar loading fleets through GET wear-life audits, root-cause analysis and zero-harm change-outs. Skilled at turning field data into clear maintenance actions that **cut downtime up to 83 % and lower cost-per-tonne**. Proficient in **Python, SQL and advanced Excel** for KPI dashboards; recognised with a **Digital Transformation Award (2021)** for a remote-monitoring app. Hold a 3-year PGWP and Post-graduate Certificate in Artificial Intelligence; open to FIFO rotations anywhere in Canada.

WORK EXPERIENCE

Sorting Team Memberr

Dec 2024 - Present

NIN Transportation • Vaughan, Ontario

- Led a DMAIC Kaizen on the sorter line: colour-coded and numbered Stops for each route and stored cartons in descending (FIFO) order; mis-sorts ↓15 % and route-build time ↓30 %, zero safety incidents.
- Re-laid the dock via spaghetti-diagram analysis: parallel truck bays and HUB-based staging halved walk distance and let two trucks load side-by-side.

Technical Support Product Manager – South LatAm

Jun 2019 - Jul 2022

ESCO Weir • Lima, Peru

- Performed scheduled GET wear surveys on CAT 7495, 6060 & 994 fleets; aligned replacement timing with production targets and aftermarket sales goals.
- Led root-cause studies that extended GET life 25 % and cut unplanned change-outs 15 %, strengthening client KPIs.
- Kept a digital log of warranty, performance data and customer actions—later used in quotations and service proposals.
- Launched remote-monitoring app (Digital Transformation Award 2021); delivered twice-daily condition updates during COVID access limits.

Global Support Technician (TSG) & GET Inspector

Apr 2008 - Oct 2018

Esco Corporation • Lima

- Delivered in-field GET inspections and lip change-out supervision at 20 + Latin-American open-pit mines, lifting customer satisfaction 30 %.
- Introduced water-pressure GET removal method; eliminated hammer use and cut adapter swap time 1 h → 15 min, zero metal-splinter incidents.
- Co-led Six-Sigma project on Bucyrus 495BII shovels; GET downtime 30 h → 5 h per month (-83 %) and fleet availability +40 %.
- Trained 100 + technicians and upheld a 12-year zero-LTI record across multiple sites.

EDUCATION

Artificial intelligence

- Canada

Metallurgical engineering

Aug 1996 - Apr 2002

Universidad Nacional de Trujillo • Trujillo, Peru

SKILLS

- GET wear-life audits, root-cause & failure-mode analysis on CAT loading fleets
- Lean SixSigma – self-taught Green-belt principles; experience leading DMAIC Kaizen and cost-per-tonne optimization initiatives
- Data analytics: Python, SQL, pandas, advanced Excel (dashboards, Power Query)
- Predictive modelling & AI basics (Centennial capstone); ML Ops & Git workflow
- CRM / issue-tracking platforms (Salesforce, PIP); warranty & quotation follow-up
- Non-Destructive Testing: liquid-penetrant (PT) per AWS D1.1 / CSA W59; coordinated ultrasonic (UT) scans on GET castings
- Blueprint & GD&T interpretation; used company gauges to verify casting tolerances and dimensional fit-up
- Abrasive- and impact-wear pattern analysis to flag premature or accelerated wear, cracks and fractures in GET
- Safety leadership: risk assessments, water-pressure hammer-free change-outs; 12-yr zero-LTI
- Field product support on GET; remote wear monitoring (KiruWear) & mobile data capture
- Bilingual trainer & presenter: fluent English, native Spanish; trained 100 + technicians
- Travel-ready; comfortable on 7 × 7 FIFO rotations anywhere in Canada

PROFESSIONAL CREDENTIALS

Post-graduate Certificate (Honours) – Software Engineering Technology – Artificial Intelligence

AWARDS AND HONOURS

2020 Technology Award – Remote GET-Monitoring Application

2020

Honoured by ESCO Division for creativity and technical leadership in developing a mobile + cloud platform that keeps GET inspections running remotely. The innovation later earned a customer-issued Digital Transformation Award and is now deployed on 11 cable shovels in Cerro Verde Mine.

Digital Transformation Award – Remote Wear Monitoring

2022

Designed and deployed a mobile + web platform that lets shovel operators photo-log GET condition and sync to cloud dashboards. Now active on 11 cable shovels; real-time wear alerts cut unplanned lip swaps **15 %**, trimmed on-bench inspection hours **40 %**, and enabled fully remote oversight during COVID-19 access limits.

Gold Idea Award Finalist – GET Refurbishment & Recycling Program

2007

Re-engineered scrap castings into refurbished GET, saving ~US \$1 M per year, matching OEM performance and diverting waste from landfill.

Six Sigma Project Certificate – Shovel-Downtime Reduction (Antamina Mine)

2011

Presented by Compañía Minera Antamina S.A. for active team participation in a Six Sigma project that reduced GET-related shovel stoppages **83 %** (30 h → 5 h per month) and lifted fleet availability **40**