GUSTAVO CASTRO

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SUMMARY

Senior Engineering Executive and CTO with 25 years of experience in Software Engineering, R&D, and Product Development. Expert in scaling SaaS platforms, AI-driven Computer Vision, and IoT ecosystems. Proven success in leading cross-functional teams of 35+ engineers and managing international technology projects.

EXPERIENCE

CREARE SISTEMAS SA Engineering Manager | Nov 2023 – Present

- Lead 38+ engineers across Backend, Frontend, Hardware, and Data Science disciplines.
- Oversee the entire SaaS software portfolio, including AI Safety Cameras and telemetry for heavy vehicles.
- Direct platform restructuring to improve modularization and infrastructure for scale.
- Manage R&D partnerships with Federal Universities for applied AI research.

PONFAC SA CTO / R&D Manager | Oct 2019 – Jul 2023

- Acted as Chief Technology Officer, leading R&D, IoT, and Robotics departments.
- Developed a No-Code Computer Vision system integrating OpenCV and proprietary AI SDKs.
- Created AI algorithms for image-based weight estimation using Machine Learning.
- Managed innovation project funding and technical architecture for new visual inspection solutions.

ELO SISTEMAS ELETRONICOS SA Software Development Manager | Aug 2010 – Sep 2019

- Managed Smart Grid infrastructure projects, including router development and remote reading servers.
- Defined software architecture for national-scale energy measurement systems.

ALTUS SA R&D Manager | Aug 1999 – Jul 2010

- Led a team of 25 in developing industrial automation products and fault-tolerant systems for oil platforms.
- Managed international vendors and technical teams in India and the Czech Republic.

SKILLS

- **Management:** Engineering Leadership, Strategic Planning, Agile Methodologies, Budgeting, Product Roadmap.
- **Technology:** SaaS, AI, Machine Learning, Computer Vision, OpenCV, IoT, Telemetry, Software Architecture.
- **Tools:** C++, C#, Python, Node.js, Next.js, SQL, NoSQL, Jira, Git.

EDUCATION

- **MBA, Management of Technology-Based Companies** - UNISINOS
- **Bachelor of Computer Science** - UNIVALI