



Senior Engineer and Researcher with over 20 years of experience in industrial project management and R&D, including the implementation of two automotive plants in Brazil, as well as in steel production, power generation and automation. He develops projects for robotic and manipulator tools, autonomous vehicle system, asset management, RCM, TPM, reliability and maintenance of critical equipment, and assessment in FMEA application. For the last 9 years he has worked on the development of robotic projects.

Experience

Brazilian Institute of Robotics - Senai Cimatec (*Project Leader & Researcher*)

- 2022 Project Manager – Researcher Robotics
- 2012 Robotics and Automation team leader
 - Support for prospecting projects
 - Advising researching fellows in robotics
 - Mentoring in robotics and automation research
 - Lecture in graduation and post-graduation courses
 - R&D technical leader in robotics projects
 - Power line inspection robot (phase I - 2011 - 2014)
 - Flatfish – Autonomous Underwater Vehicle (phase I - nov/2013 - may/2016)
 - Flatfish – Autonomous Underwater Vehicle (phase II – jun/2016 - dec/2017)
 - Speleorobot – mobile vehicle to inspection caves (mar/2016 - mar/2018)
 - Mining Qualification – mobile vehicle and hyper-spectral cams (mai/2016 - dec/2018)
 - Electrical inspection robot (jun/2017 - dec/2018)
 - Steering Assist System – ADAS (mar/2016 until may/2019)
 - Manipulators submarines (nov/2018 - dez/2019)
 - Robotics Reliability applied in complex systems (ReliaSoft platform and Netica)
 - Fault tolerance research in AUV
 - Design for Reliability in Robotics

Skanska Ltda (*Corporate Engineering Manager - O&M*)

- 2012 Development of O&M management system - corporate manager
- 2011 Reliability improvements
 - Assessment in the application of FMEA equipments and FTA
 - Application of solutions of problems and productivity increase (continuous improvement)
 - Implementation of the preventive maintenance and predictive in projects
 - Development of KPI (technical and management)
 - Support to make commercial proposes and implementation PMO

Senai Cimatec (*Business Manager in Automation and Robotics*)

- 2010 Management lecturers of Automation Team
- 2008 Management of Automation area Education (technicians, technologies, engineers, others)
 - Management of Automation area Technical Services (consulting and integration)
 - Coordination of post-graduate industrial automation
 - Development of Automation projects
 - Lecturer in graduation and post-graduation

ABB Ltda (*Regional Engineering Coordinator*)

- 2008 Consulting automation and asset management in the mining sector
- 2001 Development of automation projects in mines and processing plants
 - Management of the stamping maintenance team
 - Control site costs and Forecast Report to ABB controller
 - Implementation of systematic RCM (in the bottlenecks areas)
 - Six Sigma Green Belt Projects Management
 - Development of Six Sigma projects for reliability increase (Black Belt level)
 - Development of Reliability and Maintainability in critical equipments
 - Development of KPI (MTTR/MTBF/Availability)
 - Development of the implantation of the welding control
 - Assessment in the application of FMEA equipments

Renault do Brasil S.A. (*Automation&Robotics Engineer - O&M*)

- 2001 Coordination of improvements projects
- 1998 Attendance of New Projects for Increase Cadence
 - Superintendence of device standardization
 - Coordination welding guns and robotics expertise
 - TPM Implementation in shop floor
 - Implementation of the software of administration of the maintenance - CMMS
 - Nationalization of imported equipments
 - Support in the robotics/PLC programming and communication interfaces/general protocols
 - Robot (ABB/Comau) PLC (Allen Bradley/Renault)
 - Drives (Telemecanique/SEW Eurodrive) IHM (Allen Bradley)
 - Supervisor (Fix Dmacs / Cubes) Other (Comau/Tunkers/FASE/Rexson/SteelWeld)

Education

- 2020-2023 PhD candidate in Computer Modeling - **Centro Universitário Senai Cimatec**
- 1999-2003 Master's degree in Production Engineering - **Universidade Federal de Santa Catarina**
- 1989-1995 Electronic Engineering - **Universidade Federal do Paraná**

Interests

technology projects and an innovative atmosphere

Marco Reis

Project Manager

Personal Info

Address

Salvador - Brazil
42825-901

Phone

55 71 997 14 17 17

E-mail

marcoreis@me.com

WWW

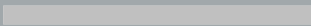
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mhar-vell.github.io/portfolio/

LinkedIn

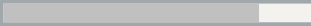
www.linkedin.com/in/marco-reis-061618/

Languages

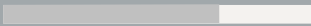
Portuguese



English



French



Spanish



Skills

- Leadership ■ ■ ■ ■ ■
- Creativity ■ ■ ■ ■ ■
- Commitment ■ ■ ■ ■ ■
- Flexibility ■ ■ ■ ■ ■
- Communication ■ ■ ■ ■ ■
- Motivation ■ ■ ■ ■ ■

Keywords

robotics automation reliability
management leadership R&D
DOE FMEA FTA bayesian
network lean six sigma OEE
ROI MTBF maintenance TPM
researching TRL FEL
Agile Waterfall MS Project
R Shiny C Python ROS