

IoT/Embedded Systems Engineer

FABIAN SARMIENTO

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Profile

Professional in Engineering with critical thinking and high analytic capacity. I enjoy learning and facing new challenges. I am passionate about the Internet of Things and Embedded Systems. My work is oriented to objectives and I like to be part of everything my team is working on .

Employment History

- **IoT Project Leader - Internet of Fields - Feb. 2022 - Today**
Design, deployment and operation of sensor networks for Smart Agriculture
Monitoring of production process of sensors for Smart Agriculture
Deployment and monitoring of weather stations
- **Train Electrical Engineer (TEE) – EMEPA - Sept 2014- Nov 2021**
Engineering calculations, equipment sizing and selection for low and medium voltage for rolling stock according to the robust standards to electrical systems.
Designing and specification of electrical circuits (power, load calculations) for rolling stock, elaboration of schematics, functional and single-line diagrams using tools like Electrical Autocad.
Contributor on definition of scope of supply between Train and Subsystems
Support to the factory during the mounting, installation and participation in the setting up of the units.
Support about the TCMS (CAN – Ethernet network), calculations, wiring topology
Supplier tracking of subsystems (electric, doors, brakes, etc.) and development of new suppliers.
Knowledge of standard IEC-61375 – Electrical Railway Equipment – TCMS – Trains Bus(TCN, WTB,MVB)
- **Client Supervisor in Alstom (Barcelona) - EMEPA - 2018**
Supervision of manufacturing of the railway coaches Alstom Metropolis for the L1 ext of the Metro de Lima
- **Scholarship holder - National Scientific and Technical Research Council (CONICET) 2012-2014**
Evaluation of the electronic properties of Mn-doped GaN semiconductors
- **Scholarship holder - National Atomic Energy Commission (CNEA) 2010-2012**
Master thesis: Evaluation of structural properties of Mn-doped GaN
- **Electrical Project Engineer- Técnica Elemec SAICIYA - 2008 - 2010**
Cost estimation and elaboration of technical offers for electrical installations according to the public/private tenders.

Elaboration of computing materials for electrical installations (commercial, residential and industrial)
Elaboration of schematics, functional and single-line diagrams using computational tools like Electrical Autocad 2D.

Education

- **University of Buenos Aires - Embedded Systems** - Specialization Degree 2019-2020
Internet of Things - Master degree - 2020 - 2022
- **Jorge A. Sabato Institute - UNSAM** — Master in Sciences and Technology Materials, 2010-2012
- **Francisco de Paula Santander University** - Bac. deg.in Electromechanical Eng, 2001-2007

Languages

Spanish: Native
English: Professional
proficiency

Computational skills

Embedded C++ - freeRTOS - Kicad - SQL
Server - AngularJS - NodeJS - GitHub

Certifications

eCARS03x: Electric Cars: Business
Credential ID:
0946a7a31c0d40aa99dda6a78ef18464

M.Sc. Fabian Sarmiento