Rafael Wazlawick Müller

Electrical Engineer

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EDUCATION

Technical degree in Electronics: 2008 - 2012

Fundação Escola Técnica Liberato Salzano Vieira da Cunha. Novo Hamburgo, Brazil

Bachelor's degree in Electrical Engineering: 2012 - 2021

Universidade do Vale do Rio dos Sinos - UNISINOS. São Leopoldo, Brazil

LANGUAGES

Portuguese: Native

English: Advanced

OBJECTIVE & SUMMARY

Seeking Hardware Engineer roles focused on end-to-end product development. With over 12 years of experience, covering the full hardware lifecycle—from schematic capture and PCB design to hands-on prototyping, board bring-up, and advanced laboratory debugging.

WORK EXPERIENCE

Senior Electrical Engineer, Binho LLC: 10/2025 - Current

Main activities: schematic capture and PCB layout on Altium design tool.

Project of luminous gaming pad using ESP32, audio amplifier and LED driver for autistic children. Participation of AI trained bengal stick hardware development for blind people. Currently working in development tools such as an USB SD Card Mux and USB to UART premium programmer.

HPC Hardware Engineer, Stellantis: 11/2023 - Current

Main activities: supporting development and validation in several hardware topics in HPC project; hardware performance analysis and hardware improvement; specification and documentation of hardware capabilities as well as requirements for software/systems team;

Hardware Engineer, Luminator Technology Group: 06/2022 - 11/2023

Main activities: hardware redesign by identifying long lead time/obsolete components and proposing newer and more efficient solutions, such as DCDC Converters circuits, analog measurement circuits, PMIC and FPGA; Layout redesign and improvement; hardware design in general PCB layout-wise, high speed signals, DDR2, FPGA, Ethernet, LVDS and DCDC converters; developing new generation products with LED technology, that goes from concept to design and final delivery.

Embedded Engineer, Globus Electronics: 2020 - 2022

Main activities: handle all the product development cycle, from the initial specification to the final product; schematics and PCB design in Altium; C programming for STM32/Freescale microcontrollers; product manual document and test report guidelines for firmware validation.

Hands-on board bring-up validation. Hardware and firmware validation, test modules development.

Electronic Technician, Globus Electronics: 2018 - 2020

Main activities: firmware validation; hardware stress tests, test modules development;

Hardware R&D Intern, AEL Sistemas S/A: 2015 - 2017

Main activities: electronic aerospace unities test equipment maintenance.

Electronic Technician, SKA Automação de Engenharias: 2013 - 2015

Main activities: technical support, maintenance of industrial hardware terminals

Electronic Technician Intern, JGM Informática LTDA: 2012 - 2013

Main activities: maintenance of computer power supplies, nobreaks and stabilizers;

PERSONAL PROJECTS

Microcontrolled Health System (2012)

- Development of a micro-controlled prototype (through PIC16F690 and C programming) to provide an easier way to manage many medications at once. With this device, it was possible to register many medications in different alarms, helping the user to not forget to take any medicines.

Real-time functional test system for automotive electronic controllers (2021)

- Final paper in Electrical Engineering. System created to provide a generic way for functional test performing in many different product lines (with disctinct hardware specifications). Developement of a HMI using C++ language with QT Creator IDE and Embedded Linux (Raspberry Pi) to emulate an automotive system combined to developed dedicated hardware as well: I/O boards and a programmable resistance board.
- Paper approved with distinction (maximum score).