



EXATRONIC
innovation insight

Design
Development
Prototyping
Industrialization
Manufacturing
Products with
Electronic Engineering

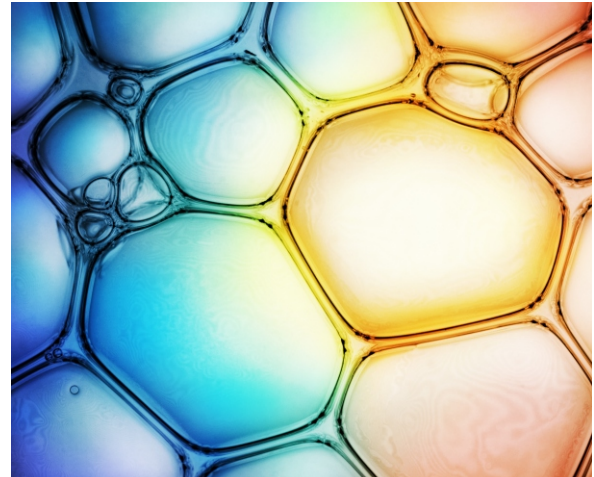
Exatronic's intro

Exatronic is a specialized company in design, development, certification, industrialization, manufacturing of products and solutions with electronic.

Exatronic stands as a one-stop-shop for turning your ideas, concepts, prototypes or upgrades into real products.

Having a great teamwork with an always-on customer mindset sets Exatronic apart.

Bring us your challenge.



*Apollo 13: "Houston, we've had a problem."
They weren't alone in 1970.
Neither are you today.*

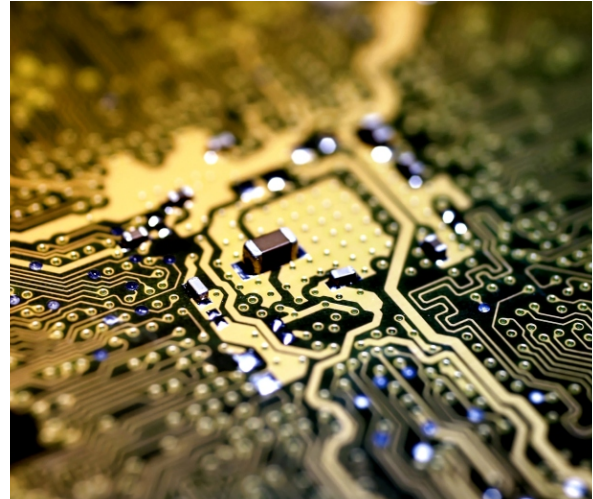


Electric and Electronics Engineering

Designing electronics to specific needs gives you a competitive edge, future-proof and hard to copy solution.

This is what Exatronic does best: turnkey electronic engineering product development. Years of experience and a highly skilled engineering team ensure the best options without compromising results.

Bring us your challenge.



Electronics

Microcontrollers		SoC	
ARM	ATMEL	ASIC	FPGA
Microchip	NTX	IP Cores	VHDL
Radio		Electronic Design	
Bluetooth	GPRS/UMTS	Multi-layer PCB Design	
ISM Bands	ZigBee	Analogue Electronics	
		Digital Electronics	

"People who are really serious about software should make their own hardware."

Alan Kay

Software

Engineering

Software development by itself doesn't offer real advantages through time. Third parties easily copy it.

Except when you combine your own hardware by developing a vertical approach to product development. This strategy is the best path to make sure uncompromising technical decisions guide your idea into a successful product.

A mix of virtual simulation with CAD-CAM-CAE software with a couple of CNC's machines allows the company to act quickly with multiple types of prototyping experiences: virtual or real.

Exatronic has the best software tools at your disposal.

Bring us your challenge.



Software

IDE

Visual Studio

Eclipse

Xcode

LPCXpresso

CAD: ECAD-MCAD

Altium Designer

SolidWorks Premium

Software development

IEC 62304

Programming methodology

SCRUM

*"Real artists ship."
An old saying...*

Tools

Exatronic uses the right tools for the right job. Be it a simple digital multimeter with 6 ½ digits or a sophisticated 300MHz oscilloscope with a 2.5G/s sample rate, using the best tools reduces the time to market.

Exatronic has several equipments whose conformance with medical directives allows to check the following standards: IEC60601-1, ANSI/AAMI ES60601, IEC62353, VDE 751, ANSI/AAMI ES1: 1993, NFPA-99, AN/NZS 3551 and IEC61010.

For radio directives, Exatronic performs tests to meet EN55011 and EN55022 EN50371 (Class A or Class B) standards.

Exatronic's labs perform thorough and objective tests to ensure your next game-changing product is 100% compliant with the target market.



Tools

Radio Frequency – EMC/EMI

Antennas

RF & EMC Spectrum Analyser

Function Generator

3-axis CNC's Machines

Medical Safety - IEC 60601-1:2005

Electrical Safety Analyzer

High frequency signal's Oscilloscope

Universal Frequency Counter

Infrared Thermal Imaging Camera

"Failing to plan is planning to fail."

Alan Lakein

Services

Exatronic's resources are available either for a turnkey electronic project from concept to production or to conduct a specific job related to your project needs.

Regulatory compliance processes are long and complex. Exatronic has the right resources to efficiently conduct product certifications by checking which requirement must be achieved and their respective limits. This saves time and money.

Exatronic makes sure your product meets pre-EMC compatibility standards like EN55011 and will present you with a detailed plan to implement the best measures.

A rich contact network throughout the industry, associations and Portuguese Universities helps Exatronic stay on top of the state of the art. The result is a continuous influx of R&D and innovation built-in to partners and customers.



Services

Project Management

CE & FCC Marking

Required Standards

Test Plan

Lab Tests

EMC/EMI

Electrical Safety

Mechanical Engineering

3D Modelling

Structural Simulation

Technical Drawing

Renderings

Technical Procurement

Medical Devices

Directive 93/42/CEE

Intellectual Property

Patent Search & Review

Portuguese, European and American

Patent Registration support

Prototyping & Industrialization

Rapid prototyping

Failures detection

Processes optimization

"Simple things should be simple and complex things should be possible."

Alan Kay



Exatronic – Engenharia Electrónica, Lda

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