MARC SOLÀ NADAL

IT enthusiast with background in electronics, web development and Linux.

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Skills

Web:
- *Languages:* Javascript, Typescript, HTML/CSS
- *Frameworks:* React, Angular, WebComponents
- *State:* Redux, XState (Hierarchical State Machines), RxJs
- *Testing:* Jest, Testing library, Cypress

Embedded:
- *Languages:* C
- *PCB:* Altium, Eagle, KiCad
- *RTOS:* FreeRTOS
- *Platforms:* RP2040, ESP32, Microchip, Texas Instruments, Altera

System Administrator: Unix, Network administration, Linux kernel optimization, Docker, Bash, Security

Soft Skills: Agile, Source control, TDD, Technical writing, Technical interviews, Vim, Meta-learning

Experience

Senior Front-End Developer (GFT Technologies, Mar 2017 - Nov 2021 · 4 yrs 9 mos)
- Developed Front-End solutions on the banking sector.
- Planned new features with the product owner, from idea to production.
- Solved architectural problems as part of the Front-End architecture team.
- Advocate of best practices, testing, new tools and technologies.

Full-Stack developer (atSistemas, Oct 2015 - Jun 2016 · 9 mos)
- Developed Back-End of in-house atomization tools for building hybrid mobile applications.
- Worked on insurance sector project solving critical issues with product owner.

Full-Stack developer (Micronax, Jun 2014 - Dec 2014 · 7 mos)
- Implemented OAUTH2 login protocol for multiple vendors in a hybrid mobile game.
- Reported directly to the product owner in an international team based in Norway.

System administrator (Barcelona University, Apr 2011 - Aug 2013 · 2 yrs 5 mos)
- Managed and maintained a RedHat cluster and network of medium size.
- Compiled and optimized the Linux kernel to improve the performance of cluster.
- Helped all network users.

Freelance C# Developer (Coralsis, Jul 2009 - Aug 2009 · 2 mos)
- Developed application for online video streaming surveillance.

Junior Developer (Inditex, Apr 2008 - Jul 2008 · 4 mos)
- Performed help-desk and some basic .NET coding tasks.

Education

Degree in Electronics, Barcelona University (2009, 24 ECTS left)

- ERASMUS in Norwegian University of Science and Technology (2013-2014)

Certificate of Higher Education in Computer Programming (2008-2010)

Personal Projects

Smart Egg Incubator (ongoing)

- Egg incubator with automatic egg turning, temperature and humidity control using FreeRTOS and C.
- Raspberry Pico (RP2040), BME/BMP280 with I2C, Servo control using PWM, Flash memory to store position.
- Flashing with SWD (using Raspberry Pi) and debugging with gdb.

Custom keyboard

- 36 key orthogonal split keyboard using QMK firmware.
- Improved PCB with KiCAD

Electrocardiogram board

- Electrocardiogram sensing board with three electrode system.
- Used Texas Instruments ADC's and microcontroller with UART to log data.

Biped robot

- Walking robot for Campus Party biped fighting competition.
- Used Texas Instruments MSP430F5438 as microcontroller.
- Coded HAL's for UART, Timers, WDT, ADC and Display.