

# Marc Solà Nadal

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

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## Skills

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### Web:

- *Languages:* Javascript, Typescript, HTML/CSS
- *Frameworks:* React, Angular, WebComponents
- *State:* Redux, XState (Hirarchical 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 writting, Technical interviews, Vim, Meta-learning

## Experience

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**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 automatization 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 moblie 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 helpdesk and some basic .NET coding tasks.

## Education

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

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

## Personal Projects

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### 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.