

Eduard Tiron Martínez

Eduard.Tiron@gmail.com | (+34) 635016882 | Dietikon, Switzerland

✉ etiron.netlify.com (portfolio) |  linkedin.com/in/eduardtiron |  github.com/tyronnosaurus

WORK EXPERIENCE

EURECAT *Software Engineer* Jan 2021 – Present (3 years) Barcelona, Spain

EURECAT is an R&D center offering services for technological companies wanting to innovate.

- Showed great capacity to learn new technologies and brought in new clients by taking projects no other department felt comfortable accepting.
- Lead the development of many projects from initial planning to shipping:
 - Python plugin for Cura for FEM analysis of 3D printed parts.
 - Firmware for tractor attachment: smart fertilization with satellite data and geolocation.
 - IIoT system for telemetry and predictive maintenance of a global fleet of threading machines.
 - Firmware for EV conversion of a mining excavator.

Ultrasion *Software Engineer* Nov 2017 – Jan 2021 (3 years) Barcelona, Spain

Ultrasion is a disruptive company making ultrasound-based plastic injection molding machines.

- Rewrote entire codebase written by several engineers during 7 years, with sparse version control and documentation (which caused considerable technical debt), and no support from previous programmers.
- Implemented new functionalities as the ultrasound molding technology progressed.
- Enhanced user experience through improvement of the UI design and simplification of all machine functions.
- Saved the company thousands by making the new website (ultrasion.eu) and solving most IT issues in the office ASAP.
- Reduced my workload through process improvements and automation to the point that I could work nearly full-time on projects for the parent company (EURECAT).

PwC *Auditor (Systems & Process Assurance, cybersecurity)* Sep 2015 – Oct 2016 (1 year) Barcelona, Spain

PwC (formerly PricewaterhouseCoopers) is an accounting firm and the 2nd largest provider of professional services.

- Interviewed clients and performed work to ensure the correct configuration of many different systems:
 - Application security audits (SAP, clients' in-house software...).
 - Database security audits (Oracle, DB2, MySQL...).
 - OS security audits (Windows/Active Directory, Unix, AS400...).
 - Financial reporting processes reviews.
 - Automated tests (CAAT) on General Ledger for financial year close.
 - Other data services (e.g., data quality reviews, data migration assurance...).

Internships

Novatec Engineers *Engineering & IT assistant* Summer '13 & '15 (6 months) Tortosa, Spain

Plásticos Castellá *Control systems assistant* Summer '12 (3 months) Tortosa, Spain

Pentriro, Sofegar *Maintenance department assistant* Summer '07 (3 months) Tortosa, Spain

EDUCATION

▪ **UPC (Polytechnic University of Catalonia)** 2009-2015 Barcelona, Spain

M.Sc. Industrial Engineering, specialization in Automation

▪ **UPC BarcelonaTech** 2016-2017 Barcelona, Spain

M.Sc. Mechatronics Engineering

SKILLS

- **WebDev:** React.js, Next.js, Tailwind, JavaScript, HTML, CSS, Bootstrap, WordPress
- **Development:** Python, C++, C#, .NET, Qt, Unity
- **Data Science:** Pandas, Matplotlib, Scikit-learn, Tensorflow, Node-RED, MQTT
- **DevOps:** Linux, Docker, Kubernetes
- **Mechatronics:** PLCs, B&R, Codesys, Structured Text (ST), Ladder, Turck, Panasonic, FPWIN, HMWIN, TX Visu Pro, J1939, ISOBUS, SolidWorks, 3D printing
- **Electronics:** Arduino, Altium, KiCAD

LANGUAGES, CERTIFICATIONS & INTERESTS

- **Languages:** English C2, Certificate of Proficiency (CPE) | Spanish and Catalan (native)
- **Certifications:** IBM Data Analyst, IBM Data Science.
- **Interests:** DIY, product development, hackathons, fitness, Crossfit, dancing.