




# Eduard Tiron Martínez

Eduard.Tiron@gmail.com | (+34) 635016882 | Barcelona, Spain

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

## WORK EXPERIENCE

**EURECAT** *Software Developer* **Jan 2020 – Present (4 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 start to shipping:
  - Python plugin for Cura for FEM analysis of 3D printed parts.
  - Firmware for tractor implement: 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 Developer* **Nov 2017 – Jan 2020 (2 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 processes.
- Made new company website (ultrasion.eu), maintained IT and security.
- Reduced my workload through process improvements and automation to the point that I could work nearly full-time 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 2<sup>nd</sup> 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

<b>Novatec Engineers</b>	<i>Engineering &amp; IT assistant</i>	<b>Summer '13 &amp; '15 (6 months)</b>	<i>Tortosa, Spain</i>
<b>Plásticos Castellá S.L.</b>	<i>Control systems assistant</i>	<b>Summer '12 (3 months)</b>	<i>Tortosa, Spain</i>
<b>Pentriro, Sofegar S.L.</b>	<i>Maintenance department assistant</i>	<b>Summer '07 (3 months)</b>	<i>Tortosa, Spain</i>

## 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*

## CERTIFICATIONS, SKILLS & INTERESTS

- **Languages:** English C2, Certificate of Proficiency (CPE) | Spanish and Catalan (native)
- **Skills:**
  - *WebDev:* React.js, JavaScript, HTML, CSS, Bootstrap, WordPress
  - *Development:* Python, C++, C#, .NET, Qt
  - *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, FPLWIN, HMWIN, TX Visu Pro, J1939, ISOBUS, SolidWorks, 3D printing
  - *Electronics:* Arduino, Altium, KiCAD
- **Interests:** DIY, electronics design, fitness, Crossfit, dancing, hackatons.