Eduard Tiron Martinez

- Software engineer -

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

WORK EXPERIENCE

Eurecat   *Software Engineer*   **01/2021 – 01/2024 (3 years)**   *Barcelona, Spain*
Eurecat is an R&D center offering services for technological companies wanting to innovate.
- Brought in new clients by taking projects no other department felt comfortable accepting; showed great capacity to learn new stacks.
- Lead the development of many projects from planning phase to shipping:
  Deep learning AI software to recognize defects in textiles | Python plugin for Cura: FEM analysis of 3D printed parts | Cloud-connected tractor with smart fertilization via satellite data and geolocation | IoT system for predictive maintenance of a global fleet of threading machines | Firmware for EV conversion of a mining excavator

Ultrasion   *Software Engineer*   **11/2017 – 01/2021 (3 years)**   *Barcelona, Spain*
Ultrasion is a disruptive manufacturer of ultrasound-based plastic injection molding machines for fabrication of mostly medical parts.
- Rewrote company's entire codebase from previous 7 years, heavily reduced technical debt, and made further development much more agile (hours instead of days for a new functionality) and less prone to bugs in production.
- Implemented all new requested functionalities as the ultrasound molding technology progressed.
- Enhanced client's UX through improvement of the UI design and simplification of all machine functions.
- Saved the company 10000s of € by making the new website (ultrasion.eu) and solving most IT issues in the office ASAP.
- Solved 100% of clients' support requests that were derived to me when all other coworkers could not solve them.
- Reduced my workload through process improvements and automation to the point that, by 2021, I could work nearly full-time on projects for the parent company (Eurecat), while still meeting all the programming needs at Ultrasion.

PwC   *Auditor (Systems & Process Assurance, IT security)*   **09/2015 – 10/2016 (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…).

Novatec Enginyers   *Internship - Engineering & IT assistant*   **Summer '13 & '15 (6 months)**   *Tortosa, Spain*
Plásticos Castellá   *Internship - Control systems assistant*   **Summer '12 (3 months)**   *Tortosa, Spain*
Pentrilo, Sofegar   *Internship - Maintenance department assistant*   **Summer '07 (3 months)**   *Tortosa, Spain*

EDUCATION

- **UPC (Polytechnic University of Catalonia)**   *Masters (MSc) in Industrial Engineering, Automation*   **2015** *Barcelona, Spain*
- **UPC BarcelonaTech**   *Masters (Msc) in Mechatronics Engineering*   **2017** *Barcelona, Spain*

SKILLS

○ **WebDev**: React.js, Next.js, Tailwind CSS, JavaScript, TypeScript, HTML, HTML5, CSS, Bootstrap, WordPress, Full-stack

○ **Development**: Python, C, C++, C#, .NET, Qt, Unity, Git, Subversion (SVN)

○ **Data Science**: Pandas, Matplotlib, Machine learning, Scikit-learn, Deep learning, 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, CAD, SolidWorks, 3D printing

○ **Electronics**: Arduino, Altium, KiCAD

LANGUAGES, CERTIFICATIONS

- **Languages:** English C2, Certificate of Proficiency (CPE) | Spanish (native) | Catalan (native) | Currently learning German
- **Certifications:** IBM Data Analyst, IBM Data Science, Certified Associate in Project Management (CAPM)