Eduard Tiron Martinez

_	Eduard.Tiron@proton.me	1	(+41)	0782064315	- 1	Zurich, Switzerl	and	EU citizen	
	etiron.netlify.com (porte	olio) 🗓	linkedin.co	om/in/	<u>'eduardtiron</u> 🎧	github.c	om/tyronnosaur	<u>us</u>

WORK EXPERIENCE

Senior Software Engineer @ Eurecat

01/2021 - 01/2024 (3 years) Barcelona, Spain

Eurecat is an R&D center offering process modernization services for other companies.

- Brought in new clients by taking projects no other department felt comfortable accepting; showed great capacity to learn new stacks.
- Led 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

Software Engineer @ Ultrasion

11/2017 - 01/2021 (3 years) Barcelona, Spain

Ultrasion is a manufacturer of ultrasound-based plastic injection machines for fabrication of 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 10.000s 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 until 2024.

IT Security Auditor @ PwC

09/2015 - 10/2016 (1 year) Barcelona, Spain

PwC is one of the $Big\ Four$ accounting firms, and the 2^{nd} 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...).

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

EDUCATION

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

SKILLS

- o *WebDev*: React.js, Next.js, Tailwind CSS, JavaScript, TypeScript, HTML, HTML5, CSS, Bootstrap, WordPress, Full-stack, Frontend, Backend
- o *Development*: Python, C, C++, C#, .NET, Qt, Git, Subversion (SVN), Unity
- o Data Science: Pandas, Matplotlib, Machine learning, Scikit-learn, Deep learning, Tensorflow, SQL, Node-RED, MQTT
- o *DevOps*: Linux, Docker, Kubernetes
- o *Mechatronics*: PLCs, B&R, Codesys, Structured Text (ST), Electric Vehicles (EVs), Ladder, Turck, Panasonic, FPWIN, HMWIN, TX Visu Pro, IFM, Beijer, iX Developer, J1939, ISOBUS, CAD, SolidWorks, 3D printing
- o *Electronics*: Arduino, Altium, KiCAD

LANGUAGES, CERTIFICATIONS

- Languages: English C2, Certificate of Proficiency (CPE) | German A1 | Spanish (native) | Catalan (native)
- Certifications: CKA (Certified Kubernetes Administrator), IBM Data Analyst, IBM Data Science, CAPM (Certified Associate in Project Management)