Eduard Tiron Martinez

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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, projects and grants valued at >100.000€/year by taking projects no other department felt comfortable accepting.
- Led the development of many projects from planning phase to shipping: Detection of defects in industrial knitting machines with deep learning | Python plugin for FEM analysis in Cloud-connected tractor with smart fertilization via satellite data | IoT 3D printing software Cura system for predictive maintenance of a global fleet of threading machines | Firmware for EV conversion of a mining vehicle Repair of undocumented Raspberry Pi based sensor for injection molding

Software Engineer @ Ultrasion

11/2017 - 01/2021 (3 years)

Ultrasion makes ultrasound-based plastic injection machines for fabrication of medical parts.

- Rewrote entire codebase from previous 7 years, heavily reduced technical debt that was holding the company back.
- 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 remaking the website from scratch and solving all 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 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...).

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

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