AMIN TOUATI

Software Engineer - IoT & Embedded Systems

Varese, VA, Italy
+39 327 571 8276 | amintou01@gmail.com
LinkedIn: https://www.linkedin.com/in/amin-touati-523a1b15b

Professional Profile

Computer Engineer (Politecnico di Milano) with cross-functional experience spanning mission-critical software development, IoT architectures, and digitalization projects. I tackle technical challenges thoroughly until the solution is verified and working. I thrive in roles where technology and business intersect, collaborating with development teams, vendors, and stakeholders to translate complex requirements into concrete, scalable solutions.

Work Experience

Municipality of Malnate (Comune di Malnate) *2024 – 2025*
IT Business Analyst & Specialist *Malnate (VA), Italy*

- End-to-end management of digitalization projects funded by Italy's National Recovery and Resilience Plan (PNRR): requirements analysis, external vendor management, through to deployment.
- Coordinated the PNRR project for the new institutional website alongside two external vendors, through to final certification of the EUR 150,000 grant.
- Translated business and procedural needs into scalable technological solutions and architectures, ensuring operational continuity of municipal services.
- Point of contact for the Municipality's IT infrastructure and liaison between internal offices, administration, and technology partners.

Tech Startup (confidential) *2024 – 2025*
Co-founder - IoT & Mobile Developer *Milan, Italy*

- End-to-end design of a high-precision IoT geolocation system ($<$ 10 cm), from on-device data acquisition to the client application.
- Integrated custom hardware based on u-blox chips (RTK-corrected GPS data) and defined device-to-software communication.
- Developed the Flutter client application through to prototype delivery.

TXT E-Tech for Leonardo S.p.A. *2022 – 2024*
Full-Stack Software Engineer *Milan – Sesto Calende, Italy*

- Designed and developed simulation software for avionics systems in the aerospace sector, within a mission-critical environment.
- Developed application logic in C#/.NET, C, and C++, and graphical user interfaces using the Qt framework.
- Collaborated on the codebase within a team using the version control system integrated in Visual Studio.

Lindt & Sprüngli S.p.A. *2018 – 2020*
IT Support Specialist (part-time during studies) *Induno Olona (VA), Italy*

- Provided Level 1 and Level 2 IT support across approximately 200 workstations, ensuring operational continuity and timely ticket resolution.
- Led the rollout of Microsoft Intune (MDM) across over 120 corporate devices, including security policy deployment.
- Supported the networking project for a new building with approximately 50 workstations.

Education

University of Milan (Università degli Studi di Milano) *2026 – present*
M.Sc. in Computer Science (Data Science - IoT), 1st year *Milan, Italy*

Politecnico di Milano *July 2026*
B.Sc. in Computer Science and Engineering (Class L-8) *Milan, Italy*

J.M. Keynes Technical Institute for Computer Science *June 2020*
High School Diploma in Computer Science *Varese, Italy*

Skills

- **Software Stack:** C#/.NET, C, C++, Python, SQL; REST APIs, Git, Java, Qt, Flutter, Docker (basic).
- **IoT & Embedded:** embedded systems, microcontrollers (Arduino, ESP32), sensors (IMU MPU6050, u-blox ZED-F9 GNSS with RTK), hardware-software integration.
- **Data & AI:** Python, SQL; fundamentals of Data Science and AI (ongoing Master's degree).
- **Infrastructure, Networking & Security:** Linux, Windows Server & Client, TCP/IP, VPN, firewall and switch configuration, endpoint security, Microsoft Intune (MDM).
- **Analysis & Project Management:** requirements analysis, translating business needs into technical solutions, vendor management, IT Service Management.
- **Soft Skills:** teamwork, analytical and diagnostic problem solving, technical communication with non-technical stakeholders, independent management of complex projects, adaptability.

Languages

Italian: Native | **Arabic:** Native | **English:** B2 (IELTS Academic, September 2026) | **French:** Basic

Personal Interests

In my free time, I work on electronics prototyping and robotics, particularly microcontroller software and drone flight controllers. I am also interested in automotive mechanics and hardware repair. I play football, read current affairs non-fiction, and travel whenever I can.

I authorize the processing of my personal data contained in this curriculum vitae pursuant to Italian Legislative Decree 196/2003 (as amended by Legislative Decree 101/2018) and Article 13 of the GDPR (EU Regulation 2016/679).