

Andrea Roccaccino

Graduate in Computer Science and Telecommunications
at UNICAS

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Roccasecca, Italy

Open to relocation

Professional summary

Multidisciplinary Software Engineer bridging physical computing and full-stack development.
Independently translates complex problems into functional systems.

Technical Skills

Programming Languages: C, C++, Java, Python, C#, JavaScript, PHP, JSP, SQL, Bash, VBA, GLSL

Tools: Git, MATLAB, Linux/Unix Environments

Hardware: PCB Design (Kicad) & Assembly, 3D Modeling (Fusion 360), Arduino & Microcontrollers, Raspberry Pi

Languages: Italian (Native), English

Experience

2024/25 – *Telemetry Manager & Embedded Engineer* | *UNICAS Racing Team (FSAE)* | designed and integrated rf24tunlink, steering wheel electronics, pilot and internal interfaces into the vehicle, then presented the entire system during the Formula Student events in Varano De' Melegari for the years 2024 and 2025.

2022 - ongoing – Volunteer at AVIS Frosinone

2019 – Volunteered at Telegram Support

Projects

2025 – [Bruxism Detector](#): open source hardware and software suite that uses machine learning to detect bruxism events, is a mood diary and integrates actual sleep data. Featured on [Arduino.cc](#) and [Hackster.io](#)

2024/25 – [rf24tunlink](#): high-performance, cost-effective radio bridge open source software for full-duplex long range data transmission, featuring custom HARQ algorithms, PCB designs and 3D modeled parts.

2024/25 – *Electric racing buggy*: stress-test for rf24tunlink, enables remote control with real-time video feedback and sets up for telepresence using VR headsets. Custom designed PCBs (remote+onboard) with sensors.

2022 – [Kirby NES remake](#): evolution of the tile engine designed in 2019.

2020 – [Tizen Watchface](#): energy conscious watchface for tizen and android smartwatches. Features strong burn-in protection and seamless battery bar.

2019 – *Tile Engine*: 2D engine with perlin noise world generation, custom lighting algorithm and raytracing tests.

2016 – *Pager (Pokemon Go)*: Pioneered real-time location sharing long before its addition to the mainstream social networks.

Doubled as a **PPE** to help users avoid hazardous places.

2015 – *Smart Diary*: social network tailored to students and teachers, classes would store homework with pictures; included a reputation system, study mode, plugins and automatically integrated daily schedules.

Education

2026 - *Bachelor's Degree in Computer Engineering and Telecommunications* | *Università degli Studi di Cassino e del Lazio Meridionale* – Grade: 96/110

2020 – *Industrial Expert Diploma with IT Specialization* | *I.T.I.S Ettore Majorana of Cassino* – Grade: 90/100

Certifications & Awards

Awards at I.T.I.S.: 1st Place Region-wide in “Giochiamo con l’informatica” and 1st Place town-wide in “Piccolo Archimede” (Mathematics and IT)

2025 - Arduino Certification: Electronics and Physical Computing

2022 – MathWorks: Introduction to Simulink for System Modeling and Simulation

2022 – Workers’ formation: company safety and firefighting