

## **MARCO MURA**

Born: 31 July 1999, Cagliari, Italy

Email: muramarco99@gmail.com

Telefono: +39 3890271561

### **Professional Summary**

Master's student in Electronics Engineering at the "Enzo Ferrari" Department of Engineering, University of Modena and Reggio Emilia, with hands-on experience in hardware design and embedded firmware development.

Strong academic background in IoT systems and PCB design, with a particular interest in millimeter-wave RADAR technology and neuromorphic computing.

Recent work includes implementing the LISTA algorithm for Multidimensional Harmonic Retrieval and investigating RRAM-based analog computing systems.

Currently developing a master's thesis focused on vital-sign estimation using millimeter-wave RADAR.

Former member of the UNIMORE Formula Student Driverless Team, contributing to hardware design and system testing.

### **Education**

**2022 - Present:** MSc in Electronics Engineering - Smart Connected Systems, at the "Enzo Ferrari" Department of Engineering, University of Modena and Reggio Emilia, Italy

**2022:** BSc in Electronics Engineering at the "Enzo Ferrari" Department of Engineering, University of Modena and Reggio Emilia, Italy. Final grade: 109/110

**2018:** High School Diploma - Scientific Lyceum "Antonio Pacinotti", Cagliari. Final grade: 100/100

### **Professional Experience**

**2025:** Embedded Systems Intern at Techboard Group S.r.l., Modena, Italy. Selected for a merit-based scholarship in Electronics Engineering, which led to an internship at Techboard Group. Conducted experiments with commercial FMCW millimeter-wave RADAR modules for fall detection and people tracking applications.

**2022/2023:** Hardware Design Team Member - UNIMORE Formula Student Driverless. Designed PCBs and supported system integration for the autonomous vehicle project. Assisted with hardware testing and maintenance of the vehicle's wiring and electronics.

### **Technical Skills**

PCB Design: Altium Designer, KiCad

Programming: C, basic Assembly, Python, basic Web programming

Embedded Platforms: STM32, ESP32

Simulation and Modeling: MATLAB, Simulink

Version Control: Git

### **Additional Information**

Languages: English (C1 level), Italian (native)

Personal Projects: DIY electronics and embedded systems prototypes

Achievements: Finisher - Milan Marathon 2025