Mahyar **Onsori**

Contact details

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Personal information

Birthday: **26/04/1999**
Citizenship: **Iranian**
Languages: **English (C2)**, **Italian(B2)**, **Persian (Mother Tongue)**
Location: Turin, Italy

Soft Skills

Leadership, Communication, Critical Thinking, Problem Solving, Adaptability, Time Management, Teamwork, Creativity

Hobbies

Playing chess and football, Playing musical instruments, Reading, Cooking, Walking, Gaming

Experience

Embedded Software Engineer at *Olorin s.r.l.* **May 2024 – Apr 2025**
◇ Developed computer vision algorithms in Python for industrial purposes, and implemented them on Raspberry Pi and FPGA-based image processing algorithms in C++.

◇ Programmed STM32 microcontroller for sensor data acquisition and designed a UDP-based pipeine to communicate with the server.

◇ Created basic web applications using HTML and CSS for the user interface of the projects.

Team member at *Sqaudra Corse Driverless* **Nov 2023 – Sep 2024**
◇ Worked with the computer vision division of the Squadra Corse Driverless team, developing YOLO algorithm in Python for the detection and classification of the cones.

Education

Master of Science in Communications Engineering *Politecnico di Torino* **Sep 2022 – Apr 2025**
◇ GPA: 104/110

◇ Thesis Title: Machine Learning for 5G/6G

Bachelor of Science in Electrical Engineering *Isfahan University of Technology* **Sep 2017 – Sep 2021**
◇ GPA: 14.95/20

◇ Thesis Title: Developing an Eye-Tracking system in MATLAB

Projects

◇ Satellite Communication System Simulation in MATLAB

◇ Implementing MIMO Techniques for Automotive Radar in C and MATLAB

◇ Pattern Recognition in RTP Traffic in Python

◇ Edge Detection and Image Denoising on FPGA in Verilog

◇ Smart Traffic Light Design with State Machine in Verilog

Technical Skills

- **Programming Languages:** MATLAB, Python, C/C++, Verilog, VHDL
- **Machine Learning & Data:** PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV, Pandas, NumPy
- **Embedded & IoT:** STM32, Arduino, Raspberry Pi, ESP32, I²C/SPI/UART, PWM
- **Hardware Design & Simulation:** ModelSim, Vivado, Simulink, Vitis
- **Networking & Protocols:** TCP/IP, UDP, MQTT, Wireshark
- **Software & Tools:** Microsoft Office, LaTeX, Linux (Bash), VS Code, GitHub
- **Laboratory Instruments:** Logic Analyzers, Oscilloscopes, Multimeters, Function Generators