Riccardo **SCHIAVONE**

Mobile phone: +39 3392082839

Mail addresses:
riccardo.schiavone@polito.it
riccardo.schiavone@eurecom.fr

Permanent Address:
Via Villanova, 57 - 10094 Giaveno (TO), Italy
Nationality: Italian
Born: 11-March-1996 in Genova, Italy

KEY STRENGTHS

attending a Ph.D. program in **telecommunications engineering** with focus on digital transceivers for satellite communications and on the design of low-complexity decoders for short blocklength channel codes; 7 years experienced **volunteer** for Italian Red Cross, with leading experience; committed to continuous learning; enjoys challenges.

EDUCATION

Ph. D. in Electrical, Electronics and Communications Engineering (2021-2024)
Politecnico di Torino (Italy)

Double Degree Master in Telecommunications Engineering (2018-2021)
"Communications and Computer Networks Engineering" at *Politecnico di Torino* (Italy) and
"Communications and Networking - Major Communications" *EURECOM*,*Télécom Paris* (France)
Final grade: 110 cum laude / 110
Thesis on "Channel Coding for Massive IoT Satellite Systems"
  Main projects:
  • **Real-time** implementation in C with Intel SIMD intrisics of signal processing algorithms
  • **Signal processing** of real PSS **LTE** signals in MATLAB$^{\circledR}$
  • **Machine learning**: clustering of DNA sequences for DNA caching and quantization of DNN models
  • **Distributed computing**: study and implementation of distributed training algorithm for Edge AI
  • Development of the main components of a **digital GNSS receiver** in MATLAB$^{\circledR}$

Bachelor degree in Electronic and Communications Engineering (2015-2018)
Politecnico di Torino (Italy)
Final grade: 110 cum laude / 110

EXPERIENCE

Industrial project (2021 - 7 months) for the development of a "European Radio Module for advancEd Spacecrafts" (ERMES) at Politecnico di Torino with Argotec and promoted by Regione Piemonte. Referent supervisor: Monica VISINTIN.

Internship and Master's Thesis (2020/2021 - 6 months) on "Channel Coding for Massive IoT Satellite Systems" at German Aerospace Center (DLR). Company supervisor : Gianluigi LIVA.

Research project (2020 - 6 months) on "compression and speedup of Deep Neural Networks for applications in resource-limited embedded devices" at EURECOM. Referent professor : Maria A. ZULUAGA

Research grant (2019 - 2 months) on "New decoding methods for product codes" at Politecnico di Torino. Referent professor: Roberto GARELLO.

Tutor (2019 - 6 months) of the course *"Discrete Mathematics"*, Politecnico di Torino. Referent professor: Valeria CHIADO' PIAT.

Tutor (2018 - 6 months) of the probability part of the course *"Mathematical Methods for engineering"*, Politecnico di Torino. Referent professor: Marina SANTACROCE.

Italian Red Cross **Volunteer** (2014-2019, 2021-up to now) for the local Committee in Giaveno (TO), leading the youth group since March 2016. Other roles regards: fundraising, telecommunications, emergencies.

LANGUAGES and TECHNOLOGIES

Italian: Native   **English:** Fluent   **French:** Pre-Intermediate

Programs: C, MATLAB$^{\circledR}$, Python, LaTeX, Jupyter Notebook, Pytorch, Tensorflow, GitHub, GitLab, Unix OS, bash, VHDL, Mosel, Microsoft Office, Google documents