Mohamad Yaacoub, Ph.D. Candidate



About

Mohamad Yaacoub received his MS degree in Signal, Telecommunication, Image, and speech processing at the Faculty of Sciences of the Lebanese University, in 2022. Currently, he is a Ph.D. student in the Intelligent Electronic Systems branch in the Department of Naval, Electrical, Electronic, and Telecommunications Engineering (DITEN) at the University of Genoa, COSMIC Laboratory. His research interests involve signal processing, embedded electronic systems, embedded machine learning, data processing for tactile sensing systems.

Education

2022 – 2025	Ph.D, University of Genoa , in "E Thesis title: <i>Tactile Signals Analysis</i>	lectronics and Telecommunication Engineering". Through AI Techniques.
2021 – 2022	cessing".	n "Signal, Telecommunications, Image and Speech pro- on Based on Transfer Learning and Frequency Domain
2020 – 2021	•	n "Electronics and Telecommunication". ion of digital modulation model (FSK, ASK, PSK).
2017 – 2020	Bachelor, Lebanese University, in Thesis title: Robot avoid obstacles with	
2016 – 2017	Baccalaureate, Marjaayoun High	n school, in "Life Sciences".

Research Publications

Conference Proceedings

- **M. Yaacoub**, Y. Abbass, C. Gianoglio, L. Seminara, and M. Valle, "Pilot study: Response of a piezoelectric polymer based sensing system to indentation," in 2023 IEEE SENSORS, IEEE, 2023, pp. 1–4.
- M. Yaacoub, H. Younes, and M. Rizk, "Acoustic drone detection based on transfer learning and frequency domain features," in 2022 International Conference on Smart Systems and Power Management (IC2SPM), IEEE, 2022, pp. 47–51.

Attended Conferences

- LV Annual Meeting of the Italian Society of Electronics, Genoa, Italy.
- 2023 | IEEE Sensors international Conference, Vienna, Austria.

Skills

Languages Arabic: Native or bilingual proficiency, English: Full professional proficiency, French: Full professional proficiency, Italian: Good under commands.

Coding C, C++, Python, LaTeX.

Data Science Matlab.

ML Frameworks PyTorch, TensorFlow.

Circuit Simulation | LTSpice.

Miscellaneous Experience

Certification

Supervised Machine Learning: Regression and Classification. Awarded by DeepLearning.AI and Stanford University.

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning. Awarded by DeepLearning. AI.

Linear Algebra for Machine Learning and Data Science. Awarded by Deep Learning. AI.

Introduction to Embedded Machine Learning. Awarded by Edge Impulse.

Delf B2. Awarded by institue français de Liban.