



● **EDUCATION AND TRAINING**

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31 OCT 2021

**PHD IN MARINE SCIENCE AND TECHNOLOGIES** – University of Genoa

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**Website** <https://unige.it/it/>

AUG 2019 – 23 SEP 2021 – Genoa, Italy

**MASTERS OF SCIENCE IN HYDROGRAPHY AND OCEANOGRAPHY** – University of Genoa

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Thesis Tutor: Prof. Domenic Sguerso

Thesis Project is in collaboration with CNR (National Research Council ) in Genoa, Italy

More Information about the thesis is stated in Projects section

**Address** Genoa, Italy | **Website** <https://unige.it/it/> | **Final grade** 110/110 + laude |

**Thesis** Multi-sensor multi-platform survey of coastal areas

SEP 2016 – MAY 2018 – Beirut, Lebanon

**MASTERS OF SCIENCE IN SURVEYING ENGINEERING** – Lebanese International University

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Thesis Tutor: Prof. Chadi Abdallah

Thesis Project was in collaboration with CNRS (National Council for Scientific Research) in Lebanon

More Information about the thesis is stated in Projects section

**Address** Beirut, Lebanon | **Website** [LIU.edu.Lb](http://LIU.edu.Lb) | **Final grade** 3.27/4 |

**Thesis** Assessment of Coastal Area Variation in South Area " Tyr Stretch"

FEB 2013 – JUN 2016 – Beirut, Lebanon

**BACHELOR OF SCIENCE IN SURVEYING ENGINEERING** – Lebanese International University

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Thesis Tutor: Prof. Mouhamad About

Thesis Project was in collaboration with Qlaiaa Village Municipality.

More Information about the thesis is stated in Projects section

**Address** Beirut, Lebanon | **Website** [LIU.edu.Lb](http://LIU.edu.Lb) |

**Thesis** A Sewage System Design in Portion of AL-Qlaiaa Village

25 MAY 2021 – 31 AUG 2021 – Genoa, Italy

**TRAINEE** – CNR-INM( National Research Council-Institute of Marine Engineering), Unige Geomatics Laboratory

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Training supervisor: Prof. Domenico Sguerso and Prof. Angelo Odetti

I'm working in parallel as trainee at CNR-INM( National Research Council-Institute of Marine Engineering) and Geomatics Laboratory of Genoa University, while developing my Master thesis.

More information about the training is stated in the Work experience section.

**Address** Genoa, Italy | **Website** <http://www.inm.cnr.it/>

## WORK EXPERIENCE

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25 MAY 2021 – 31 AUG 2021 – Genoa, Italy

**TRIANEE – CNR-INM( NATIONAL RESEARCH COUNCIL- INSTITUTE OF MARINE ENGINEERING)**

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Multi-sensor multi-platform survey of coastal areas Internship held at the laboratories of the Marine Engineering Institute CNR-INM( National Research Council-Institute of Marine Engineering), as well as at the Geomatics laboratory of DICCA (University of Genoa), seeking to develop methodologies for mapping coastal areas using multi-sensory systems mounted on aerial and marine drones.

JUN 2018 – AUG 2019 – Ein Bousoir, Lebanon

**SURVEYING ENGINEER – FREELANCER**

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Topographic Survey in my home town as : delimitation of parcel boundaries and land division.

JUN 2016 – JUL 2017 – Siada, Lebanon

**SURVEYING ENGINEER – SEC S.A.R.L**

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Part time job.

Job tittle: Creating a data base for sewages systems by field measurements and using GIS (Geographical Information System)

## LANGUAGE SKILLS

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Mother tongue(s): **ARABIC**

Other language(s):

**ENGLISH (FLUENT ORAL & WRITTEN)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ITALIAN</b>	A1	A1	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

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### My Digital Skills

#### Computer Skills

Microsoft Office | Geographic Information System (QGIS, ArcGIS) | Cloud Compare | Autodesk (Autocad, Civil 3D) | Image Processing (Erdas) | Adobe Photoshop | Matlab | Agisoft Metashape

#### Technical skills

Bathymetric surveying equipment | Photogrammetric work | Topographic instruments(total station , level , laser scanner, GPS)

## ● PROJECTS

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FEB 2021 – CURRENT

### **Multi-sensor multi-platform survey of coastal areas**

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Remote sensing techniques nowadays are applied to various fields and commonly used to acquire a huge amount of data in a rapid way taking into consideration the achievement of the necessary precision and resolution targeted. The integration of several instruments is an optimal solution in our case to work on bathymetric survey and beach survey (emerged and submerged area) with respect to the expected accuracy and to provide a reliable data that can support different sectors.

Coastal zone survey using several techniques as UAV (Unmanned Aerial Vehicle) photogrammetry for emerged area and AV (Automated Vehicle) as SWAMP (Shallow Water Autonomous Multipurpose Platform) is prototype developed by CNR-INM (National Research Council-Institute of Marine Engineering) for bathymetric surveys, will provide data in order to reconstruct a continuous 3D model taking into consideration the achievement of the necessary precision and resolution targeted in reasonable time. Hence, to suggest useful information to the operators about the instruments and budget necessary to achieve the expected accuracy from the survey.

OCT 2017 – JUN 2018

### **Assessment of Coastal Area Variation in South Area " Tyre Stretch"**

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This thesis project with collaboration of CNRS (National Council for Scientific Research- Remote sensing center) was for monitoring and detection the variation occurred (erosion or accretion) of sandy beach in "Tyre stretch" that it is considered a natural reserve area. Moreover, to relate the results with the expected reason (natural or artificial).

The monitoring took place over 80 years (1938-2018) by following two different procedures through the availability of various sources of data. The first procedure was relying on the availability of Cadastral map and satellite images to detect the variation on long term duration, while the second was based on monthly field survey of the coast line using NRTK (Network Real Time Kinematic) to detect the normal range of variation due to the natural factors.

The analyzed data was done by using GIS (Geographical Information system) and relates the results mainly to an artificial reasons.

JAN 2016 – JUN 2016

### **A Sewage System Design in Portion of AL-Qlaiaa Village**

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By this project we are seeking to regulate the sewage of some of the neighborhoods found in Al-Qlaiaa village; such neighborhoods are witnessing uncontrolled flow of drainage. Because of people's suffering in these neighborhoods, it was a necessity to implement such project.

After exploring the village and sighting these neighborhoods, along with all of the collected information about the studied roads, a leveling network was then built. So that excavation volumes can then be computed in order to provide the best suited flowing of drainage from its initial source to the treatment plant.