



Mohamad Khalil

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● ABOUT ME

I am a PhD student in mechanical Engineering , holding a masters degree in hydrography and oceanography looking for new exciting projects for the development of my skills and experience.

● DESIRED EMPLOYMENT / OCCUPATIONAL FIELD

Surveying Engineering

Hydrography

Oceanography

● EDUCATION AND TRAINING

NOV 2022 – CURRENT Genoa, Italy

PHD IN MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING University of Genoa

AUG 2019 – 14 OCT 2021 Genova, Italy

MASTERS OF SCIENCE IN HYDROGRAPHY AND OCEANOGRAPHY University of Genoa

APR 2021 – SEP 2021 Genova, Italy

HYDROGRAPHY AND OCEANOGRAPHY TRAINING Istituto Idrografico della Marina

NOV 2018

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM Udemy Platform - Online course

9 JUL 2018 – 21 JUL 2018 Saint Petersburg, Russia

SUMMER SCHOOL IN GEODETIC ENGINEERING Saint Petersburg Mining University

SEP 2016 – MAY 2018 Beirut, Lebanon

MASTERS OF SCIENCE IN SURVEYING ENGINEERING Lebanese International University

SEP 2012 – JUN 2016 Beirut, Lebanon

BACHELOR OF SCIENCE IN SURVEYING ENGINEERING Lebanese International University

OCT 2015 – MAY 2016 Tyre, Lebanon

SURVEYING ENGINEER TRAINEE Eng. Abbass Darwich Office

DEC 2014 – JUN 2015 Baabda, Lebanon

SURVEYING ENGINEER TRAINEE Topograher Maroun Njiem Office

● WORK EXPERIENCE

JUN 2018 – SEP 2019 Beirut, Lebanon

SURVEYING ENGINEER FREELANCER

I was working in topographic works identifying boundaries, producing elevation maps, land division, and following the works in construction sites.

JUN 2016 – OCT 2017 Al-Hadat, Lebanon

SURVEYING ENGINEER INFORMATIC TOPOGRAPHIC COMPANY(ITC)

Producing cadastral and topographic maps for cities, by using topographic instruments (GNSS, total station). The aim was to transform the old cadastral maps from hardcopy to digital georeferenced form, by measuring control points , and features, that are existing in the maps and field site.

OCT 2017 – MAY 2018 Mansourieh, Lebanon

RESEARCHER LCNRS-REMOTE SENSING CENTER

The period I spend in the center was focusing on my thesis during Masters degree in surveying engineering, and also participating in land cover land use project of Lebanon, the aim of this project to monitor the changing of the land uses over series of years, my role in this project was as a GIS specialist, by digitizing and classifying the satellite images and to create the final maps of the projects.

● **LANGUAGE SKILLS**

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
ITALIAN	B1	B1	B1	B1	B1

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

● **DIGITAL SKILLS**

Social Skills

Effective Communications | Empathy and flexibility | Relationship Management

Organizational Skills

Creating and Keeping Deadlines | Assessment and Evaluation | Problem solving | Multitasking | Working Under Pressure | TeamWork

Technical Skills

Hydrographic Instruments(multibeam , single beam) | Topographic instruments(total station , level , laser scanner, GNSS) | Aerial drones | Oceanographic instruments(CTD, SVP)

Computer Skills

Geographic Information System(ESRI, QGIS) | Image processing software(ENVI ,SNAP, ERDAS) | Photogrammetry software (Agisoft metashape, Cloud compare) | AutoDesk(AutoCad, Civil 3D) | Microsoft Office | Hydrographic software(Caris)

● **DRIVING LICENCE**

Driving Licence: A

Driving Licence: B

● **NETWORKS AND MEMBERSHIPS**

FEB 2021 – CURRENT Bierut, Lebanon

Order of Engineers and Architects

● **PROJECTS**

FEB 2016 – JUN 2016

Identifying the Violations in the Archeological Zone of Tyr using GIS

According to the Lebanese law that prevent any kind of construction in the zones that are classified as archeological zones, so the aim was to identify all violations that are presented in these zones, to allow the municipality of Tyr to settle the violations with the violators. By using, the urban planning maps that represent the type of each zone, so i identify my target zones, from the topographic map I extract the buildings that are surveyed in the city, and high resolution satellite image and google earth to check if any building is missing in our zone to be added. GIS gives the advantage to operate all these processes in a smooth and accurate way to identify all the violations.

OCT 2017 – JUN 2018

Assessment of coastal Area Variation in South Area “Tyr Stretch”.

This thesis project is done by the collaboration with CNRS, the aim was to assess if the variation in the coastal zone of Tyr is due to artificial or natural causes. To achieve our target we have used different type of data, cadastral maps that represents the shoreline in 1938, high resolution satellite images for several years (1964,1994,2005,2008,2013) produced from different satellites, and field GPS measurements for the shoreline in 2018. By comparing all the areas that are taken from these data and knowing the historical events of the city, we achieve that the cause of this variation is an artificial variation.

FEB 2021 – OCT 2021

Monitoring Ross Ice Shelf Area Extension Variation in Antarctica

Due to the climate change and global warming, which leads to changing in the characteristics in ice shelves characteristics around Antarctica. I decide to focus on the Ross ice shelf because it's one of the most biggest ice shelves and for it's important role in Antarctic environment. The procedure that I am following to achieve a good results by using different sources of satellite images that gives us data of our target area in several bands, after choosing the specific bands for combining them, so we can recognize different features from the color of each feature. By the usage of GIS, I operate a supervised classification that gives me the ability to export the data I need from the images, so i can compare between these data for the different years to have a brief conclusion how is the area variation in going.