

Halim Ghafary

Hjg21@bu.edu | +961 70 663 667 | +1 (857) 376-9990 | [LinkedIn: Halim Ghafary](#)
29 Douglas RD, Medford, Boston, Massachusetts 02215

Education

Boston University, School of Engineering, Boston, United States expected 01/2024
• **Bachelor's in Science , Mechanical Engineering**
College Notre Dame de Jamhour, French Baccalaureate, Math, Baabda, Lebanon
Nationality: American

Engineering Projects

Mini-golf track

- Designed a 3 axis linear drive programmed to create a golf track on sand.
- Programmed the motors to move simultaneously to create the path needed for the track.
- 3D printed and machined parts assembled in the projected with screws and bolts to create and join the drive.

Basement Monitor

- Created a Basement Monitor meeting all the requirements the client wants: Monitor measuring Temperature, Humidity and water level in a Basement, being also affordable and able to contact resident by email.
- Used a DHT11 as a temperature and humidity sensor and a float switch, connected to an ESP32 .
- Coded to be able to send emails to the resident if any changes in the measured features were to change and be outside the safety range fixed.

Matlab CO2 emission program

- Created a program that can scrub database containing CO2 emission and happiness in countries.
- Plotted the data on a map, as charts and tables.

Revit Building

- Designed a residential building on Revit containing 8 floors, 2 parking and a basement.
- Created and featuring all the details of the building from windows and doors to toilets and stairs.

Additional projects:

Robot Warrior, Wood Bridge, Solar Panel Bin Design, Solidworks multiple projects.

Experience

Industrial Engineering Intern, Amatoury 114, Lebanon, Beirut 04/2019- 06/2019
• Helped with the re-evaluation of the machines.
• Helped with the re-evaluation of the supply-chain movement in the Factory and how to optimize the outcome per worker.

Engineering Intern Student, STS Consultants, Lebanon, Beirut 06/2018- 08/2018
• Learned how geotechnical software would help engineers study the soil before construction begins.
• Helped with challenges faced by professional engineers on construction sites like evaluation of pipelines or infrastructures.

Additional Work experience

Football Head Coach, Beirut Football Academy, Beirut, Lebanon 05/2019- 09/2021
• Coached character development and provided direction while using deep communication skills to student athletes
• Achieved a high level of skills as well an appreciation for discipline, sportsmanship and teamwork in addition to planning, organizing, and conducting practice sessions

Skills

- **Languages:** Fluent in English, Arabic and French
- **Computer skills:** Excel, Word, PowerPoint, Python, Solidworks, Revit, Matlab

Extracurricular Activities and interests

Boy Scout Leader, Scout du Liban, Lebanon, Beirut 2011- 2021
• Lead a group of 15 scouts ranging from 18 to 24 years old, by using communication and critical thinking: delegating tasks and responsibilities as per regulations, helping in personal development.
• Organized fund raising events for the branch such as concerts, events, fund mainly used towards maintaining the branch premises and organizing outdoors activities.
• Organized charity events geared towards providing food and support for disadvantaged children and elderly, such as Christmas lunches, outdoors events etc.

Rugby Player, Boston University (2021- present)

Football Player, Beirut Football Academy: Lebanese Championship 2nd Place (2016-2017),(2017-2018)

Football Player, College Notre Dame de Jamhour: Lebanese Championship 1st place 2017, 2018, 2019

