

# MHAMAD SHMAYSANI

(+961)71326214 ◇ mhamad23shmaysani@gmail.com

## EDUCATION

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**Lebanese International University, Nabatieh**  
Masters of Science in Electrical Engineering  
Department of Electrical and Electronics Engineering

*October 2018 - Present*  
Current GPA: 3.51/4

**Lebanese International University, Nabatieh**  
Bachelor of Science in Engineering, Electrical

*October 2016 - June 2018*  
Overall GPA: 3.42/4

## CARRIER OBJECTIVE

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To work for an organization which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective.

## PROJECTS

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### **Design of Brushless DC Motor Controller Based on Artificial Neural Network**

The project aims to improve the performance of the brushless dc motor by designing a new controller based on artificial neural network. The new controller will be a good replacement for old motor controllers and will eliminate the drawbacks caused by other controllers like PI and PID. A Matlab simulation were performed and its result was compared with the prototype experimental results

### **Hybrid PV System**

In this project the case of implementing a solar PV system in parallel with diesel generators is studied. In order to reduce fuel consumption and depend less on the power generated by diesel generators. The project concern the calculation of power required to feed the load demand at Zrayryeh village - South Lebanon. Helioscope software used for estimating power, solar panels required and how many inverters to be used.

### **Piezoelectric Energy Harvesting From Footstep**

Piezo electric materials were used in a prototype designed in form of plate, these materials were subjected to mechanical stress from the footstep and have the ability to generate electric charge when subjected to this kind of stress.

## TECHNICAL STRENGTHS

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**Modeling and Analysis**  
**Software & Tools**

AutoCad, Power world simulator  
MATLAB, TIAPortal(siemens), Winpro ladder plc(fatec), Helioscope

## WORK EXPERIENCE

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**MASS, Beirut - Bir Hassan**  
*Intern engineer*

July 2019

· Internship at MASS mechanical and electrical contracting office. Learned about shop drawing and electrical circuits for residential and commercial type of buildings.

**Ghaddar machinery, Ghazeyeh - South Lebanon**  
*Internship program member*

July 2018

- Internship at Ghaddar machinery. Learned about assembling generators and designing the electrical control.

## **ACADEMIC ACHIEVEMENTS**

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Elite student in Introduction to Programming from Lebanese International University

Attended the "Student and Young Professional Lebanon Congress 2018" on March 9 and 10, at the American University of Beirut

Participated in Earthing System workshop at Training and engineering consultancies office (TEC office)

Participated in a 4 hours of practical training in Arduino workshop at LIU-Nabatieh campus.

## **EXTRA-CURRICULAR**

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Participating in several university activities and engineering clubs

Team sports and youth organizations

## **PERSONAL TRAITS**

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Highly motivated and eager to learn new things.

Strong motivational and leadership skills.

Ability to work as an individual as well as in group.