

# MOHAMMAD Z. SHEHAB

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## OBJECTIVE

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Seeking a position in Mechanical Engineering where I had gain practical experience for contributing to the progress of the company. Able to follow instructions, multitask, handle interruptions, and prioritize workloads. Team player and had the ability to research and solve complex issues independently.

## EDUCATION

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| 2014-2015 | <b>M.S. in Mechanical Engineering</b><br>Rafic Hariri University (R.H.U) | (Mechref, Lebanon) |
| 2011-2013 | <b>B.S. in Mechanical Engineering</b><br>Rafic Hariri University (R.H.U) | (Mechref, Lebanon) |
| 2009-2010 | <b>General Sciences</b><br>Rene Mouawad Official High School             | (Beirut, Lebanon)  |

## INTERNSHIPS

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- I got an opportunity for an internship in **360 Engineering** Company from May 15to July 9 2013. The scope of this training program included is to observe and realize all the mechanical work that done in the sites; to simpler tasks like case studies; reports; drawings on AutoCAD and data insertion.

## WORKING EXPERIENCE

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|---|---|-------------------|
| January 2016-present  | <b>Research and Development Engineer</b><br>The Little Engineer Company | (Beirut, Lebanon) |
| <ul style="list-style-type: none"><li>▪ Working with 3D Printers for rapid prototyping processes</li><li>▪ Developing many courses to enable students on how to construct and program robots and renewable energy designs</li><li>▪ Delivering many workshops for teaching students robotics and renewable energy</li><li>▪ Delivering several workshops in <b>Jordan, UAE and Qatar</b> with the Little Engineer-Airbus program</li><li>▪ <b>The Little Engineer</b> Company offered me an opportunity in <b>China</b> to be trained on robotic systems and automation at <b>Abilix</b> Company (Chinese company) on February 2017</li><li>▪ Delivering train-the-trainer sessions in <b>Pakistan</b> with the Little Engineer-Airbus program in November 2019 for one week.</li><li>▪ Teaching robotics courses in <b>Dubai</b> from October 2020 to January 2021</li></ul> |   |                   |

## -MEMBERSHIPS

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Syndicate of Engineers in Beirut

## MAJOR COURSES

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- *HVAC*

Air conditioning basics; occupant comfort and indoor air quality; heating and cooling load calculations; HVAC controls; air conditioning systems and air delivery systems; refrigeration basics, methods and applications.

- *Plumbing Engineering*

This course is concerned with Soil, waste, and vent piping; drainage system; piping systems for domestic and industrial hot and cold water, fuel oil, de-ionized and de-mineralized water; laboratory compressed air and vacuum; laboratory outlets; laboratory drains; vacuum pumps; general piping installation.

- *Thermodynamics*

This course is concerned with heat and its relation to energy and work. It defines temperature, internal energy, entropy, and pressure that characterize materials, and explains how they are related and by what laws they change with time.

- *Mechanics of materials*

This course is a subject which deals with the behavior of objects withstanding stresses and strains. It refers to various methods of calculating stresses in structural members, such as beams, columns and shafts. The methods employed to predict the response of a structure under loading and its susceptibility to various failure modes may take into account various properties of the materials other than material yield strength and ultimate strength.

- *Mechanical Design*

This course teaches how machines employ power to achieve desired forces and movement. Also, a machine has a power source that generates forces and movement. Modern machines often include computers and sensors that monitor performance and plan movement, and are called mechanical systems.

- *Dynamics*

This course is concerned with the study of forces and torques and their effect on motion. The study of dynamics falls under two categories: linear and rotational. Linear dynamics pertains to objects moving in a line and involves such quantities as force, mass, displacement, velocity, acceleration and momentum. Rotational dynamics pertains to objects that are rotating or moving in a curved path and involves such quantities as torque, moment of inertia, angular displacement, angular velocity, angular acceleration and angular momentum.

## SKILLS

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- **Skillful at** AutoCAD (2D and 3D )
- Solidworks
- Instructional Design
- Sketchup
- ANSYS(CFD)

- Internet of Things
- Arduino
- 5 different types of robots
- Several programming languages such as C++, Python and Javascript
- Well-informed about any material's property
- Skillful at Microsoft Office
- Communication skills
- Leadership skills
- Time management

## **LANGUAGES**

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- Fluent in Arabic (native language)
- Fluent in English (written and spoken)

## **Hobbies**

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- Hunting
- Playing football

## **References**

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Available upon request