

Kaou : Hello ,

Sarah : hi how are you BOUNE ?!

Kaou: good and you ?!

Sarah: Great thanks ..

Kaou : Do you have a moment ?!

Sarah : Yes, sure

Kaou : thank you . Well it's about the new project

Sarah : Yes..

Kaou : so that the project may go smoothly i need to hire a new person in my team .

Sarah : Ok, I see what kind of employee ?!

Kaou : an network engineer .

Sarah : ok , anything else ?!

Kaou : Yes , we need to hire a new trainee so he can remplace Fabrice , because I need Fabrice experience and knowledge in the new project .

Sarah : ok I'll see what I can do about it .

Kaou :thank you .

Sarah : You're welcome ,, you can let HR know so that they can put an ad .

Kaou : yes right away .

Interview 1:

RH : Tell me about yourself.

CANDIDAT:

It's my pleasure to introduce my self..well, I'm AMAT SAMIA BOUALIL

I have done my schooling in Private Polytechnic Institute of Casablanca as electrical enginner

*I have spent the last six month developing my skills as a electrical engineer for Megacompany Inc.,*

My short term goal is i want a such a platform where i can grow my career along with the organisation growth like yours and

My Long term goal is i want to be one of the reason for the success of the organisation and i want to see your organisation as a bench mark to other organisations.

thats all about me sir....thank you for giving me such a wonderful oppurtunity.

RH : What do you know about our company ?

CANDIDAT:

RH:Why do you want this Job ?

CANDIDAT :- I am looking at this role as an opportunity and according to me your company is the best platform for me to start a long-term career.

- It will definitely help me to gain experience, knowledge for my career growth which will be in turn also helpful for your company.

This is one of the primary reasons for joining your reputed organization.

RH :Where do you see yourself five years from now ?

CANDIDAT: -

- I want to devote the next few years learning new skills, taking up challenging jobs and putting in my hard work to grow.

- This will help me become smarter and more professional at

work. Also, I would like to develop my leadership skills and hopefully see myself advancing to the next level.

RH :What would you say if your manager is crazy about an idea, but you think it stinks ?

CANDIDAT :- I would present my opinion to the manager and a probable solution with its benefits and wait for boss' opinion.

- Managers have lot of industry experience and can most of the times see a big picture.

RH:What are your strengths ?

CANDIDAT :

- Inventive, Independent,
- Enthusiastic, Courageous,
- Caring, Confident, , Analytical,
- Helpful, Responsible.

RH :What are your weaknesses ?

CANDIDAT :

(d) Restless : I am very hard-working and that leaves a very less time for leisure activities.

CONTROLLEUSE: Why AC systems are preferred over DC systems?

CANDIDAT :Due to following reasons, AC systems are preferred over DC systems :

- (a) It is easy to maintain and change the voltage of AC electricity for transmission and distribution.
- (c) From power stations, AC is produced so it is better to use AC then DC instead of converting it.
- (d) When a large fault occurs in a network, it is easier to interrupt in an AC system, as the sine wave current will naturally tend to zero at some point making the current easier to interrupt.

CONTROLLEUSE: What is basic difference between transformer and inductor?

CANDIDAT : An inductor can store the energy but an ideal transformer does not store the energy.

CONTROLLEUSE:What is the main difference between contactor and Starter?

CANDIDAT :The magnetic starter is very similar to the magnetic contactor in design and operation.

The important difference between contactors and starters is the use of overload heater element in the starter.

(For protect the motor from over heating or over load protection).

DIRECTEUR:What will reduce Neutral currents ?

CANDIDAT :Balancing loads over three phases.

DIRECTEUR:What is Main Difference b/w Electrical and Electronics Engineering?

CANDIDAT :Electrical Engineering is the field of Engineering that generally deals with the study and application of electricity, electronics, and electromagnetism.

Electronics Engineering is an Engineering discipline where non-linear and active electrical and electronics components and devices such as electron tubes, and semiconductor devices, especially transistors, diodes and integrated circuits, etc. are utilized to design electronic circuits, devices and systems.

DIRECTEUR :What are your salary expectations?

CANDIDAT :I understand that positions similar to this one pay in the range of 8000DHS to 12 000ds in our region. With my experience, I would like to receive something in the range of 8 000DHS to 10 000DHS.

DIRECTEUR :Do You Have Any Questions?

CANDIDAT :what will be my rôle exactly if am given an opportunity

## interview 2 majda

A. Can you introduce yourself?

My name is AMHIM Majda, I'm 23 years old, I got my baccalaureate in 2013 physics option, after, I decided to continue my higher studies at the Polytechnic Institute Private of Casablanca in electrical engineering, I got my degree in 2017. I spent a lot of internship for the purpose of practicing my knowledge that I acquired during my training.

B. Why electrical engineering?

I love the field of electrical and I have always dreamed of developing skills and projects in this domain

C. What personal characteristics do you feel are necessary to be a successful engineer?

To be a successful engineer, the most important personal characteristic is to be innovative! If you have a problem, you come up with a solution with the things you have around you. Also being curious about the world around you and asking lots of questions.

D. What are you not good at?

I am impatient with myself at times and am hard on myself

.E. What is your biggest challenge in terms of skills?

I don't like to sit around and so like to always find things to do to keep myself busy.

F. Do you have any question or questions?

If I am extended a job offer, how soon would you like me to start?

Technical questions :

1. What is excitation?



Excitation is applying an external voltage to DC shunt coil in DC motors.

2. What is “pu” in electrical engineering?

Pu stands for per unit in power system ( $\text{pu} = \text{actual value} / \text{base value}$ )

3. What are the types of power in electrical power?

There are normally three types of power are counted in electrical power. They are

- ☐ Apparent power

- ☐ Active power

- ☐ Reactive power

4. What does the KVAR means?

The KVAR indicates the electrical power; KVAR means “Kilo Volt Ampers with Reactive components”

5. What is MARX CIRCUIT ?

It is used with generators for charging a number of capacitors in parallel and discharging

them in series . it is used when voltage required for testing is higher than the available.

6. What are the advantages of speed control using thyristor ?

Advantages:

- ☐ Fast switching characteristics than Mosfet , BJT, IGBT

- ☐ Low cost

- ☐ Higher accurate

7. What is ACSR cable and where we use it ?

ACSR means Aluminium Conductor Steel Reinforced , this conductor is used in transmission and distribution

RH questions

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### Interview 3 akima

Tell me something about yourself ?

Good morning and thank you for giving me this opportunity to introduce myself

I'm LAGHZAL Hakima from benimellal

I have done my degree in electrical engineering from private polytechnic institute of Casablanca.

Why did you select an engineering ?

I love engineering because engineers create things that really matter, for example ; all doctors depend on the x-ray machines which are designed by the enginners.

Apart from this, there are lot of job opportunities available in the market , which helps ensure that i'll be able to help my familly financially after graduation.

Why should we hire you ?

I feel there are 4 reasons why you should hire me :

- One, I am very aggressive & focused person who likes to overcome challenges.
- Second, I am a team player with good knowledge on sales management.
- Third, I am looking for a long-term career with your organization.

- Fourth, I feel that the role and exposure to knowledge which your company will provide me is totally inline with my expectations and interests.

What are your strengths ?

Some of the Strengths are listed below :

- Energetic, Clever, Imaginative, Witty, Adaptable, Humanitarian, Resourceful, Loyal
- Inventive, Original, Accepting, Devoted, Imaginative, Independent, Compassionate
- Generous, Optimistic, Enthusiastic, Courageous, Dependable, Persistent, Patient
- Caring, Responsive, Confident, Ambitious, Encouraging, Analytical, Observant
- Helpful, Reliable, Precise, Diplomatic, Idealistic, Hospitable, Passionate, Responsible.

What are your weaknesses ?

- (a) Self-involved : When I am onto something, I focus & give my 100%, which keeps me busy whole day.
- (b) Possessive : I am very possessive about my work.
- (c) If I fail at something, I keep doing it until I get it right.
- (d) Restless : I am very hard-working and that leaves a very less time for leisure activities.
- (e) Self-absorbed : Sometimes I skip my lunches to complete the tasks I am on to.

(f) Cool : I am not a hardcore aggressive person. I take my own time to think & come to the concrete solutions

What do you think about money ?

- Money comes second to knowledge.
- It is never a priority for me.
- As, I am the only earning member of my family.
- I need a decent package that can help me save 15000 Rs. every month for future expenses.

What is your dream Job ?

- My dream job is Marketing Head for a reputed firm like yours.
- And the Sales role which I have applied for is the beginning of my journey towards my goal.
- Also I am ready to give my best for achieving the goal.

What are your expectations from this Job ?

Some of my expectations from this job are

- Learning new things over the period
- Good exposure to client communication and obviously a good pay that justify my role and skills

Give an example of your creativity.

I used question paper as a scale in the exam because I forgot the scale at home.

Where do you see yourself five years from now ?

- I see myself as becoming more skilled, more efficient, and more professional, better person and at higher position in the company that would never loose me at any cost.
- I want to devote the next few years learning new skills, taking up challenging jobs and putting in my hard work to grow.
- This will help me become smarter and more professional at work. Also, I would like to develop my leadership skills and hopefully see myself advancing to the next level.

Why do you want to join our company and not any other ?

- Ethics of company
- Job role matches your passion
- Learn from peers
- Become a part of something special
- Near to Home
- Suggested by an alumni or a friend

Do you have any questions for me ?

- What a day at your company looks like ?
- How would you rate this interview out of 10
- What will be my role exactly if I am given an opportunity ?
- How do you train new joiners?

Explain the application of storage batteries.

Storage batteries are used for various purposes, some of the applications are mentioned below :

- For the operation of protective devices and for emergency lighting at generating stations and substations.
- For starting, ignition and lighting of automobiles, aircrafts etc.
- For lighting on steam and diesel railways trains.
- As a supply power source in telephone exchange, laboratories and broad casting stations.
- For emergency lighting at hospitals, banks, rural areas where electricity supplies are not possible.

Why AC systems are preferred over DC systems?

Due to following reasons, AC systems are preferred over DC systems :

- (a) It is easy to maintain and change the voltage of AC electricity for transmission and distribution.
- (b) Plant cost for AC transmission (circuit breakers, transformers etc) is much lower than the equivalent DC transmission.
- (c) From power stations, AC is produced so it is better to use AC then DC instead of converting it.
- (d) When a large fault occurs in a network, it is easier to interrupt in an AC system, as the sine wave current will naturally tend to zero at some point making the current easier to interrupt.



State the difference between generator and alternator

Generator and alternator are two devices, which convert mechanical energy into electrical energy.

Both have the same principle of electromagnetic induction, the only difference is that their construction.

Generator has stationary magnetic field and rotating conductor which is on the armature with slip rings and brushes riding against each other.

Hence, it converts the induced emf into dc current for external load whereas an alternator has a stationary armature and rotating magnetic field for high voltages but for low voltage output rotating armature and stationary magnetic field is used.

What are the different methods for the starting of a synchronous motor ?

Starting methods: Synchronous motor can be started by the following two methods :

- By means of an auxiliary motor : The rotor of a synchronous motor is rotated by auxiliary motor.
- Then rotor poles are excited due to which the rotor field is locked with the stator-revolving field and continuous rotation is obtained.

- By providing damper winding : Here, bar conductors are embedded in the outer periphery of the rotor poles and are short-circuited with the short-circuiting rings at both sides.
- The machine is started as a squirrel cage induction motor first.
- When it picks up speed, excitation is given to the rotor and the rotor starts rotating continuously as the rotor field is locked with stator revolving field.

Dialogue candidat Hamza

R. Can you introduce yourself quickly ?

C. My name's X, I'm 22 years old, I'm an electrical engineer looking for a job, and your job offer interests me greatly.

R. Do you have any experience in this field ?

C. I had an 8 months experience as a technician, where I was in charge of maintaining industrial machinery and setting up new ones.

R. What attracts you the most in our company ?

C. I'm looking for stability and evolution in my career. Your company is the perfect fit for my needs.

R. What do you fear in this opportunity ?

C. I'm totally confident about this and want our interview as well as every business we undertake to be successful.

R. Where do you see yourself ten years from now ?

C. Hopefully at some important position in this company.

R. What is your salary expectation ?

C. The market price for an electrical engineer right now is about 15000dh more or less, Since I have little experience I'm asking for a minimum of 11000dhs.

R. Alright, let's get into the technicity, [Technical question I don't know the response of]

C. [Responding or not depending on the candidate]

R. Been a pleasure having you, we'll let you know by e-mail your response. Good bye !

C. Thank you for your time, have a nice day

[Candidate leaves]