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magazine

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ISSUE N°5 JANUARY 2013



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QUOTES”

“You’ll never find time for anything. If you want time, you must make it”

Charles Buxton

“Your life does not get better by chance, it gets better by change”

Jim Rohn

“Don’t wait for opportunity, create it”

Unknown



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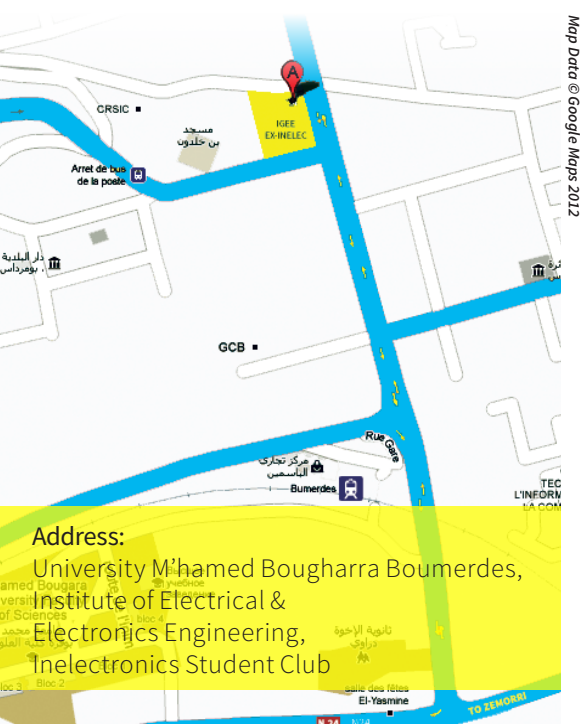
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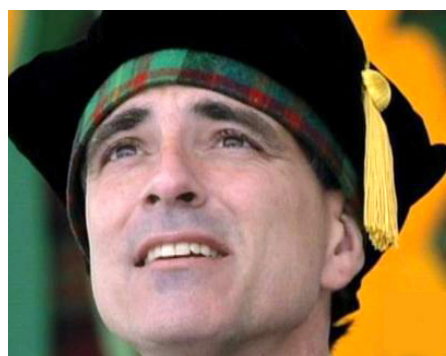
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Elections in Inelectronics Students' Club

Each year Inelectronics Students' club goes through elections to choose a new staff that would run the club's events and activities for one academic year. This year a new president for Inelectronics Students Club was elected by the members exactly on Wednesday, November 21st 2012 from 11:00 to 13:00 in the Club local C001 Bloc C at the Institute of Electrical & Electronics Engineering, There were 74 members who attended the voting session, while there were four candidates for the president position and after every candidate delivered his 10-mins motivational speech that clarified his vision, stated his EBs and mentioned his plan for the term 2012/2013. The president of Inelectronics Students Club for the term 2012/2013 after transparent elections was announced: Abd El-Hamid AOUF By 71.62% of the total votes.

The list of the Executive board

Name	Position
AOUF Abdelhamid	President
GUERROUDJ Abdesselam	First Vice President
DJEFFAL Taki Eddine	Second Vice President
KAOUANE Hanane	General Secretary
MESSAOUDI Djahida	Talent Manager
OULD BABA ALI Walid	Talent Manager
TOUATI Tamim	External Relations
BOUARROUDJ Nabil	External Relations
ZEBBICHE Baderddine	External Relations
REZTANE Sidali	External Relations
BOURICHE Walid	Event Manager
SOBAIHI Rabeh	Event Manager
OUNIS Zakaria	Communication
ELAHOUEL Seifeddine	Communication
OBAIDI Bahaeddine	Treasury



Inelectronics
Student Club

EDITORIAL

Abdelkader ALLAM

What is Inelectronics Magazine?

Inelectronics Magazine is a non-profit student run magazine that is going to be published bimonthly from now on. It was first started in 2008 as the initiative of an enthusiastic group of IGEE students and it has been growing since then. We have always been seeking to better the quality and content of Inelectronics Magazine that is why we consider our readers' feedback as valuable. You can always share with us your opinions and impressions either by sending us emails or simply by subscribing to our Facebook page to leave us comments and interact with other readers as yourself. Our magazine is the result of the effort made by the student writers and editors of Inelectronics Club who simply attempt to be of use to their university, community, and country in general just as many other people are doing nowadays, each in their own way.

What is our mission?

In the midst of the information flood of the media, students initiatives and achievements are no longer highlighted or given enough recognition that is why we thought it of utmost importance to offer them the opportunity to express and share their creativity, passion, and enthusiasm. And because we believe in the Algerian students' abilities, talents and Initiatives, we feel that it is our duty to showcase their achievements and talents in order to make it possible for others to get inspired and follow the same path. For these reasons, we have sections in IM such as "Events" not only to let you know about the events that are talking place in IGEE (ex-INELEC), but also keep you updated about the coming ones. We have many sections in the magazine that deals with themes such as "technology, actuality, and society". Finally, in sections such as "Interview", we try to interview people whose stories could be of great benefit and inspiration to our readers because "a good example is the best sermon".

How do we print and distribute our issues?

Thanks to the help of the IGEE (ex-INELEC) administration in general, the continuous support and kindness of Professor Dalila CHERIFI in particular, and our sponsor Schlumberger, our publications are made possible. The printed versions are distributed to our guests and students during the many events taking place on campus. The electronic version is always available as well for downloading.

The E-Commerce:

Horizons, obstacles and solutions!

By **Badreddine ZEBBICHE** (L05)



What is E-commerce?

Wikipedia states that: "Electronic commerce, commonly known as e-commerce or e-comm, refers to the buying and selling of products or services over electronic systems such as the Internet and other computer networks". E-commerce allows sales support and customer support that can be simulated as an e-Market where sellers are in touch with buyers providing products and services within a digital or virtual format where money is paid money electronically. E-commerce can be divided into two principle classes: Business-to-Customer or B2C which is a commercial exchange between companies and individuals, and Business-To-Business or B2B among companies.

E-commerce Advantages

Effort & Time Saving: E-Markets are open permanently i.e. the customer does not need to travel or wait in line to purchase an item. Shipping is provided and e-Money saves transactions.

Wide range and freedom of Choice: E-Commerce provides a wide range of online stores with full items' descriptions without any kind of

pressure from sellers.

Low Cost: Most of prices on the internet are lower than the ones found in ordinary stores since e-purchase does not have a lot of taxes.

Customer satisfaction: Internet offers direct interactive interactions which allow fast customer service response which will automatically make the customer satisfied.

E-Commerce Future

Day after day, an increasing number of traders are expressing their good feedback and optimism concerning the desired benefit from e-Commerce. This kind of new commerce allows the competition involving new coming companies. From now on, new technologies will be integrated to easily avoid the customer obstacles, especially at the level of confidentiality and security of financial transactions. Among these protocols, we find what is called "Secure Electronic Transactions-SET" which indicates a secured, bright and unlimited future for e-Commerce.

Reasons for not adopting E-commerce in Algeria

Despite the critical importance of the adoption of the e-Commerce as an instrument to empower the development of the Algerian economy, the Ministry of Commerce did not even think about proceeding with such a procedure.

Hence, we could state many reasons that prevent the spread of such a trade in our country, which are:

1- The level of illiteracy in our coun-

try that shows the huge rate of people who do not even know how to use the internet which prevents the enlargement of e-Commerce.

2- For a simple daily worker who gets paid less than 300\$ per month in Algeria, obtaining a computer and internet access could be costly for him, as well as the absence of competition between internet service providers. This service that is exclusive for the government only for time being.

3- Lack of Business Institutions' interest in such a modern way of business that could have new horizons. Thus, this will make e-Commerce poor.

4- The non-interest of the highest authorities in adopting such a business. We notice that the Ministry of Commerce did not even conduct a survey to know if people are interested in this new way of shopping.

5- The underdevelopment of the Algerian banking system in terms of means and techniques of payment which prevents e-Money use.

Ways to expand e-commerce in Algeria

I just mentioned a number of obstacles that hinder the use of e-commerce in our country. However, on the other hand, we should provide solutions that could open our economy to a new era of business that has witnessed a real success in the western countries. We could state:

1- Establishing formative bases in IT fields that involve e-Commerce at all





the levels including higher education that can be taught as an official module.

2- The need of privatization of the communication sector and opening the competition for internet providers in order to reduce the cost of Internet access which will expand the e-Culture including e-Commerce.

3- Thinking of a legal framework for e-Commerce and including its new laws.

4- Lowering the taxes and fees of Internet access in order to be accessible to all society categories with reasonable costs.

5- Developing e-payment methods for banks as well as adopting e-banking network systems.

6- Providing secure systems to the Algerian customer in order to avoid the risks.

What do we conclude?

After clarifying the concept of e-commerce and defining the obstacles that are encountering the progress of e-commerce in Algeria.

Some solutions were provided to enhance it. Despite the necessity of e-business that reached its apex in other countries, the Algerian government has not awakened to adopt it as a new empowering tool for its economy ■



Non-Renewable energies are no longer a solution

By **Abdelaziz BOUSSEKINE** (E08)



The hydrocarbons sector is the backbone of Algeria's economy for 25% of GDP, 57% of government revenues and nearly all exports earning. Algeria now has the 5th largest reserves of natural gas in the world and ranks 14th in oil. In addition to this, the Algerian Energy Minister has announced that the country is planning to become one of the world's biggest exporters of liquefied natural gas (LNG) within a few years. But is this enough to satisfy the country's economy? According to Algerian government estimation; Algerian supply of oil and natural gas is being depleted slowly since this source of energy is not renewable i.e. the wells are going to dry one day for good. Therefore, there will be no source that Algerian economy can rely on for the long term.

In addition, developed countries which are the world's biggest oil and gas importers are working on finding a way to get rid of the economic dependence to the petroleum exporting countries including Algeria. We can take as an example the USA plan in adopting the renewable energies as an alternative for

natural gas and oil. Here, we can say that the Algerian government is facing a challenge in how to satisfy the country's economy without counting only on non-renewable energies.

The measures that could be taken to tackle this problem in order to prevent the occurrence of economic deficit is to change the way of thinking and outline short and long term goals to try to keep pace with the new technological development in the world. One way to achieve this is to go through investing in renewable energies like solar and thermal energies which are a very efficient way to generate energy where scientific studies have proven that the sunlight falling on the Algerian desert (Sahara) in one day contains more than twice the energy we consume in an entire year. If we adopt the solar energy program right away; we will satisfy at least 30% of the Algerian income and reduce the impact on the environment since the equipment used in generating solar power do not cause air pollution.

Solar cells operate on the same >>

[Non-renewable energies are no longer a solution]

>> technologies that are used in the manufacturing process of silicone chips for computers, which means it is a very high technology that the Algerian government should follow by train scientists and engineers that are able to carry the burden of this difficult task.

Here where the students' work should come, since students act like the main base that the country counts on for a better tomorrow. There are more than 1.2 million university students in Algeria, if they have the opportunity to get hired in such domain they will be able to join forces and work on developing the country's economy. Especially in the solar energy domain so we can improve the situation and our country live up to the ranks of the developed nations ■

The reality of studying abroad With Two perspectives

By **Abdelkader DAHLOUK** (L03)

When people's standard of living gets better, they often think about improving their knowledge for a better life. And to do that, they choose to study in developed countries where they can get progressive education. However, everything has its advantages and disadvantages. Hence, studying abroad is not a paradise as everyone thinks.

First of all, we start with the positive perspective which seems that Studying abroad is more advantageous than studying in a local country. And there are many reasons why studying abroad has many advantages. First, we have a chance to improve our language. I think nothing is better than to learn a language with the native speakers because we can practice with the local people what we study at school. So, it is very useful to improve our listening and speaking skills. It also offers the opportunity to discover the new cultures, the way of thinking, history, customs and lifestyles. Furthermore, we have opportunities to study the new technologies and most recent science achievements. In addition, we are equipped with the valuable and updated knowl-

edge which may help us to find jobs easily after graduating, because people graduating from foreign countries are chosen by companies to work in their, and they will get a high-level job. Currently, many companies require personnel speaking more than two languages because of the international communication. Therefore, if they have a chance to study abroad, they have to go.

Concerning the negative perspective, it seems that studying in a local country is better than studying abroad because studying abroad is often expensive. So, we have to pay not only for our school fees but also for our living costs. This is why funding may become the biggest problem. Consequently, it distracts our mind from studying to earning money.

Last but not least, adapting to a new environment is a real challenge for every foreign student. While changing the weather can affect our health; different cultures and customs may influence our mind and make us become less confident or even a victim of discrimination. Everyday may turn into a struggle for survival in a strange country. If

we do not have enough physical and mental strength, we will fail to adjust ourselves in the new environment. As a result, we could neither study nor gain beautiful experiences as we have expected.

To conclude, if you want to succeed, you must have a purpose for your traveling. You should decide to put your career making plans in order in order, and pick a country that your country recognizes their educational system to be able to use your degree in your home country when you decide to return. Therefore, I suggest that you should finish your education in your country of origin first and then, you can always travel during summer and get to know all the students' organizations around the world from which you can learn a lot. So, learn everything you can from these organizations, and keep in your mind that knowledge is the only weapon you need to succeed whether you study here or there. However, the most important thing is to know how to gain more knowledge and experiences that make you successful in your life ■

Welcome New Comers

By **Salim DJAZIARI** (L03)

Congratulations! You have finally made it to IGEE, one of the best institutes in Algeria. Now, you are no longer newcomers, but a part of the IGEE's family. Most of you are not yet familiar with the spirit and the atmosphere of the institute, this article will answer some common questions that come to your mind.



The spirit of the institute:

One of the advantages of being in IGEE is that everyone knows everyone; you are going to meet students from all the corners of Algeria, and get a chance to blend with different mentalities and have new perspectives. Students in IGEE share knowledge and resources so that everyone gets a great deal of knowledge after graduating.

And whenever someone needs help, they will find a lot of other students looking forward to help them. In IGEE, we learn, innovate and share.

“Students in IGEE share knowledge and resources so that everyone gets a great deal of knowledge after graduating”

Are studies hard?

Indeed, the studies are not a piece of cake, but you are the best students in Algeria, and all of you are capable with a little effort to graduate from IGEE.

You have just to be up-to-date. The exams are a little bit harder than other faculties and universities in Algeria, but they are not impossible to pass.

“your most important task is to learn as many things as you can”

Are we going to find a job?

Yes, of course, in electronics field, there are a lot of job opportunities, and as IGEE students, you have the advantage over other electronics engineers in Algeria.

What is my task as a member of IGEE's Family?

As first year students, your most important task is to learn as many things as you can, the club is one of the best ways to do so, and to participate in the events of the club that I highly recommend you join. It is the best time to use your great potential

and your motivation to learn, share and innovate. The club is a place where you can expose your ideas share them with other students that have the same interests with you and come up with new brand ideas. You are going to learn how to cooperate with others in a team, and realize amazing projects.

Are there going to be problems?

As all other universities in the world, yes, you are going to face some difficulties and problems. But, now as an adult, you have to learn how to cope with them wisely and efficiently. Besides, you are going to find other students that have already been in the same situations. They could be of great help to you.

We, IGEE students, welcome you again and hope you will enjoy the studies in our institute. And if you have other questions, you will find us around to gladly answer all of them ■

Have you ever heard about SED TVs?

By **HAMMADI Mohamed Ramzi** (E09)

Plasma



SED



LCD



In 1926, the Scottish engineer John Logie Baird (1888 – 1946) invented the first television in the world. However, his dream would not have been realized if other inventions had not preceded his such as: the television scanning system designed by the German engineer Paul Nipkow in 1884, followed by the first practical photoelectrical cell or photocell designed by the two Germans: Julius Elster and Hans Geitel in 1889. In addition to this, the cathode ray tube invented by another German Karl Ferdinand Braun in 1897 until the invention of the first television system and also the world's first fully electronic color television tube after two years. However, with the advance in technology, flat screen televisions such as: LCD, Plasma and LED have been introduced. They have brought a new technique known as SED: Surface-conduction Electron-emitter Display technology. These televisions were developed by Toshiba and Canon in 2003, and then presented publicly in 2005 before being commercialized in 2008.

The development of SED (Surface-condition Electron-emitter Display)

screens began in 1986 at Canon and was joined in 1999 by Toshiba. SEDs combine elements of both CRT (Cathode Ray Tube) and LCD (Liquid Crystal Display) technologies.

SED technology works much like a traditional CRT except instead of one large electron gun firing at all the screen phosphors that light up to create the image we see, SED has thousands of tiny electron guns known as “emitters” for each phosphor sub-pixel, one of the three colors (red, green, blue) that make up a pixel. The result is a picture that is as bright as a CRT and does not suffer a time lag sometimes seen on LCD panels with rapidly moving images.

SED televisions are very efficient. The owner of such televisions is going to benefit from a full high definition (Full HD) resolution, a time response less than 1msec, a very high contrast with only a low brightness compared to LCD or plasma televisions. The price, on the other hand, was more expensive than that of LCD and plasma sets, yielded to cancel the development of this technology by the Canon

Company as it could never reduce their price to fit that of the LCD and plasma televisions ■

Industrial robots: A sculpture of a human hand!

By **Nabil BOUARROUDJ** (L05)

Robots have fascinated human beings either in science fiction by becoming the new mankind of the future, or in the real life by the different tasks they have been able to handle. Almost every engine we are using nowadays had been manufactured by the help of industrial robots. However, it should be pointed out that the robots used in various industrial manufactories are not made by the manufacturer himself. So how does a robot that is built to build other engines is made?

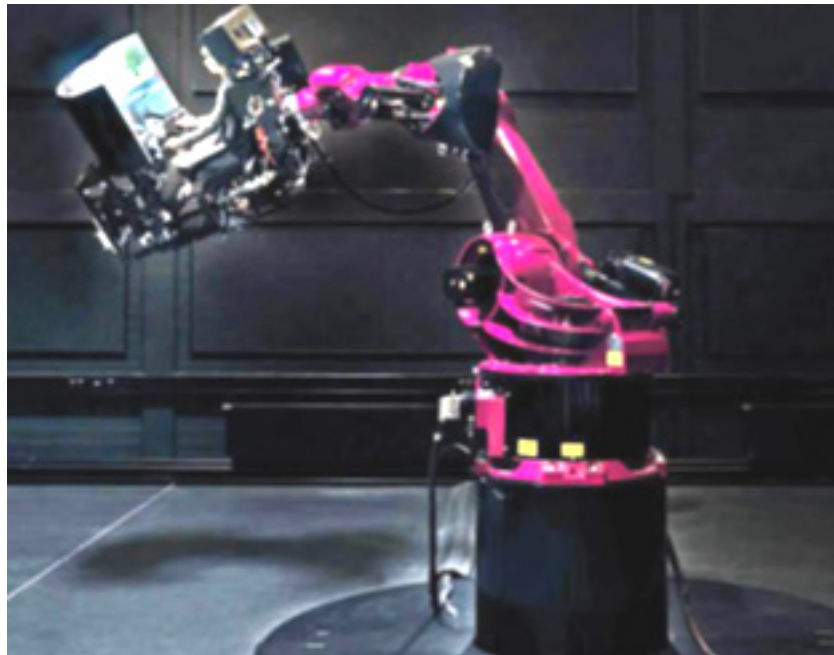
Kuka is one of the biggest leading producers of industrial robots in automotives, fabricated metals, food and plastics. It is widely used in production by an important range of companies like: Audi, BMW, Mercedes-Benz, Ferrari, Boeing, Coca-Cola, and many others. It has almost 150 people working to produce 10000 robots a year according to a Discovery Channel documentary. It had also been mentioned by the same source that 650 robots are used in BMW car plant to produce 900 cars a day. However, Apple FoxConn factory is still always depending on human hands, and it takes 5 days and 325 sets of hands to assemble an iPad, as being mentioned by ABC News Nightline. Robots are mostly used due to their high accuracy and repeatability. Some people can lift the same boxes with similar motions each time whereas the robot can perform exactly the same motions without exhaustion. Industrial robots do not need the same human body to perform their tasks; an arm and a hand are enough to do the job. According to "science.discovery.com", a car-building robot arm is made from 750 parts, which is three

times the number of bones in a normal adult skeleton (206 bones). It has the equivalent of a shoulder, an upper arm, and a wrist; but instead of a frail human body, it is connected to a robust mechanical base. A human shoulder elbow and wrist can perform an almost infinite number of different movements, while a robot arm can only have a rotation around one axis, but it has twice as many joints as a human arm which more than compensates its inconveniences. Each arm is adjusted with no fewer than 6 powerful servomotors, giving the robot arm the equivalent of a medium sized car horsepower.

"the human hand remains on the top of the charts"

What about accuracy?

A clumsy working robot on a production line would be the nightmare of a manufacturer. Unfortunately, according to madehow.com, that's what happened in the 1980s for General Motors Corporation, where Robots were painting each other instead of car bodies; and crushed into the passing vehicles.



CyberMotion Simulator: A robot arm into an awesome f1 simulator.

Thankfully, it was fixed with the help of a technician by simply pressing the "Reset" button to make the machines working again. The secret of a robot precision lies in its motors that power the joints, it has multiple electromagnets which allow the robot arm to move repeatedly to within one tenth of a millimeter. However, the human hand remains on the top of the charts, no robotic device can reach its skillfulness, dexterity, and range of performances. That is why robots keep changing their hands depending on what job they are performing from a welder or a drill to a glue gun or a screwdriver. A three dimensional motion plane is also used to create the motion of a robot, the commands are saved on a small memory device that is inserted into the robot's control panel, and commands are downloaded into it so that the robot can switch into action.

Robots may have changed from yesterday's precious items into today's everyday disposables, but the unduplicated human hand is still highly advanced ■

Looking for inspiration?

Here is yours!

By **Khaoula ALI** (L01)

As you know, we are about two months away from the New Year, so are you still not having plans and goals? Did you even take time to make-up your mind and set personal and accomplishable goals for your 2013 success and beyond?

Some of you might be thinking that they are incapable of putting new plans because they have failed this year to make the life that they dreamed about a reality.

Have you ever heard about Randy Pausch and his last lecture? This inspiring man who knew that he had a pancreatic cancer, and that he would die within five months, yet he was still standing up giving his students pieces of advice on how to achieve their own career and personal goals.

In the memory of Randy Pausch (October 23, 1960 – July 25, 2008), below is a “mash-up” of some inspiring notes using Randy Pausch’s quotes.

1. Start from scratch and keep on scratching:
What were your childhood dreams? Did you achieve at least one of them?

Many of us are forgetting about their childhood dreams. However, if we think about it, we may find that our childhood dreams are really interesting; so why don’t we try to achieve them, and make other goals and plans?

One of the most important questions in life that we need to consider well is: How are we going to find a way to spend our time doing the right thing? Because time is all we have, that is why we need to work hard and always remember

that “[we] can always change [our] plan, but only if [we] have one.”
Randy Pausch

2. I quit! ... I am dying of disease.
Some of you might be thinking, right now, about their diseases and how they stop and deprive them from perusing their own goals.

It was never a strong-enough excuse and Randy Pausch was a perfect example for this. On his first month from sixth months near his death, he made his speech in front of a hundred people, and he said his last famous words: “that is what it is; we are just going to respond on that, we cannot change the cards we are dealt, just how we play the hand”. He was trying to tell us if we ever fall ill not to just quit, but to try to make a change. If you were a leader in a company take on the challenge and move on with it. If you were a professor, teach your students your experiences in life. If you were father or mother let your children live their best days they ever had, don’t just quit because you are ill. You live only once make it worth.

3. Want to move on? Never complain!
Since people know the secret for success, I think everyone should take responsibility for his own habits, and as far as those people who keep complaining about everything are concerned, I think it might be very hard for them to be successful. According to Anthony Robbins states that everybody needs to learn how to use pain and pleasure instead of pain and pleasure use them. If you do that you are in control of your life, if you don’t life controls you.
Have you ever heard about someone use complaining as a strategy?

Of course not! It will never happen. Every successful man has a finite time and energy. And any time we spend whining is unlikely going to help us.

We need to stop using those words : “I cannot , I won’t , How can I do it , I will fail “

We have to take what comes to us and make it into something tangible, take the chance and believe in your abilities, because it is all about how to lead your life in the right way!

4.Fail? Life always goes on.
“The person who failed of ten knows how to avoid future failures”. Randy Pausch
Many people stopped their plans because of failure they have been scared of, and they cannot get out of it, so why? Haven’t you heard that from failure comes success? Therefore, we need to remember that: “no matter how bad things are, we can always make things worse. At the same time, it is often within our power to make them better” If you failed your exams, it is not over yet; remember that somewhere there is a student who don’t have the money to pay for their studies, so just work hard and pass it. If you failed at your vocation, have a look at your habits and always try to make the necessary corrections and try again. If you failed in making your children loves you, try to change your attitude with them. Remember always where there is hope, there is a solution ■
Still looking for inspiration?

Randy Pausch 1960 - 2008

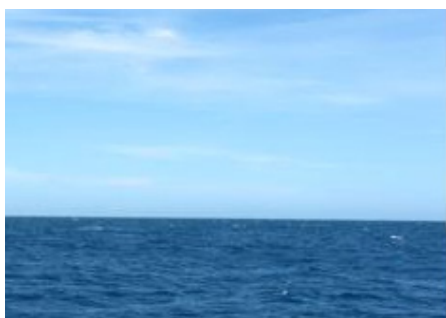


Aral's death... a sad tragedy of a human staring!!

By **Anis HAMDANE** (E09)

Have you ever heard about a sea amidst large spaces of a dry waste desert?! Aral sea – the last drops left precisely- has been seen as one of the most gigantic inner water masses all over the globe with an area exceeds 67 thousands km² on its golden age making it the beating heart of the Asian desert for centuries and an ideal fishery resource feeding an inestimable number of tribes and clans among the dead dry desert. This vast space of saltwater was kept “alive” thanks to two main rivers (Syr-Darya and Amu-Darya) playing the role of its veins for its remains.

Okay...Let us put aside the geography for its geeks and move to our concern: The ecological tragedy of the Aral Sea! The shrinkage of the sea was the bleak fate written to the Aral by some unwise decrees taken by the Soviet government as a way to boost its industry during the cold war (1960s). With a will to turn the desert into cotton agricultural plains –the white gold of those days- to invest its outcomes later, both of the Daryas were derived hundreds of miles away for irrigation needs, and the Aral was then left to count its last days under the unbearable levels of heat and the media blackout imposed by the government to put its biological crime out of sight!

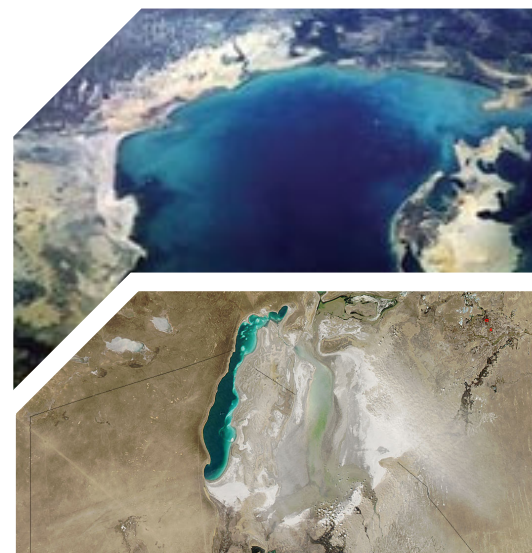


The years had succeeded. Water levels started to dramatically decrease leaving behind those wild sterile areas of salt! The sea became truly compared to the Black Sea! Starvation and poverty swept over the region and brought adjoining tribes' people to their knees with a variety of fatal diseases gathering hundreds of blameless spirits every year. The visitor to the sea can now witness on the painful last scene before the curtain comes down on the Aral's tragedy!! A scene with no words as no expressions would suit the situation! Just a bleak image drawn by the old rusted ships as far as the eye can see!! It really is like visiting ship wrecks at the bottom of the sea with no sea! In a way similar to the old tragic legends, the sea has turned into this vast ships graveyard where

“the tremendous efforts applied by the government to recover the ecological weight of the Aral during the previous century”

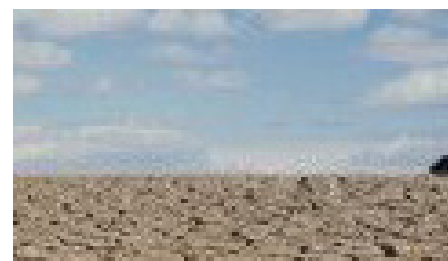
all you can feel is as if the time has stopped to honor the sad memories with the soundless screams of the rusts bouts filling your heart with this deep dread from the silence of the place and the dry land as if the sea is taking its last breaths!!

Some desperate efforts and attempts to avoid the complete extinction of the Aral followed the dissolve of the former Soviet Union. The first gesture was a contract signed by the socialist republics in January 1994 to pledge 1% of their budgets to help the sea recover. Unfortunately, the limited funds



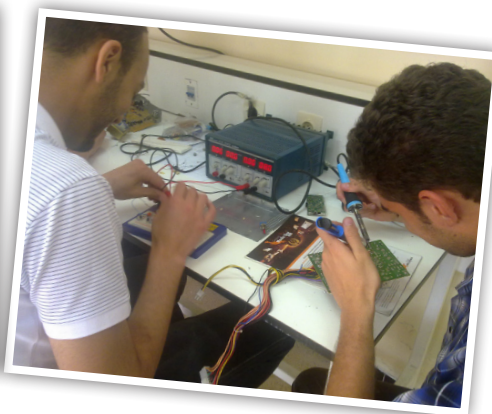
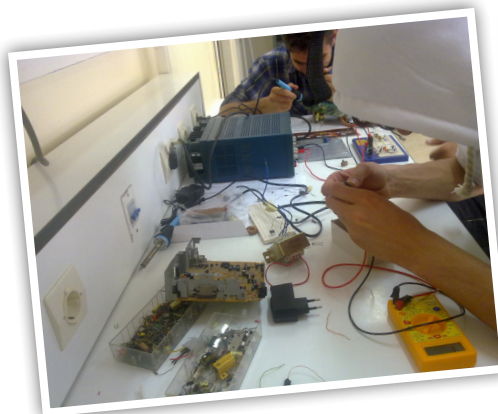
of those recently independent countries were the main obstruct to proceed in the recovery process. The sea now is divided into two lakes, the Lesser and the Greater Seas, with a salinity almost triple that of the sea in the fifties from which only the Lesser Sea -under Kazakh's authority- is still holding a glimmer of hope in a better future for the tremendous efforts applied by the government to recover the ecological weight of the Aral during the previous century.

Between this and that, the reader of those words should realize how our large and brutal impact as humans was the only pen writing the lines of this tragic drama. This crisis and the steps that led to it symbolize our lack of understanding to our surrounding environment, as well as the extent in which we are able to cruelly destroy our nature. This, also, proves to every sane person how wrong we are about nature's capacities to provide not so much for our needs as our fantasies are driven by economical and political reasoning. In a straight sense, we're not destroying nature...we're just killing ourselves! ■



IGEE INNOVATION Days

By **Seif Eddine EL AHOUEL** (L01)



So, what are Innovation days? And what happened during this event? Well, Innovation Days basically consist of three successive days during which INELEC students showed their creativity through the implementation of mini-projects. After spending days working on these projects, IGEE students gathered to celebrate their accomplishments by exhibiting their finalized projects. And the best project was chosen by a panel of judges.

Sunday the 20th of May, the first day, was about the exhibition of software programs. Students shared their knowledge about the programs they use, while others presented their own programs such the "Open Code" team that work to develop free applications for public use.

The second day of IGEE Innovation Days was dedicated to the many projects implemented by students who range from freshman to seniors. Ten teams worked during many days to realize their projects directed by team leaders. Some were there to improve their skills with hardware and

materials while others showed us what they can do with them. In addition to the software exhibitors, the magazine stand was also there distributing free copies to the attendees. At the end, Ilyes Mohammed Beladjeri's project was selected as the most innovative project. There was also a visit of special guests and representatives from Schlumberger.

The third day of the event was the closing ceremony with presentations done by IGEE students with the presence of company representatives such as Schlumberger who gave time to answer students' inquiries about the job market and how these companies could help the students. The event was closed with a visit from LSI Access students, a private English school, who had a tour in the institute and also got their spotlight time in the conference room, and to finalize the three days event with a group picture ■



IGEE & INDUSTRY Day

By **Sabiha OMARI** (L03)



Launching a career has always been the most important matter for newly graduated students. Although, large job opportunities are available in the Algerian market nowadays, the majority of students find it so difficult to start their professional life in a field that really fits their qualifications.

INELECTRONICS student club, and within its vision that seeks to build a bridge between the students and the industrial world organized the first edition of "IGEE and INDUSTRY Day", a forum that brought the biggest companies working in Algeria in direct contact with ex-INELEC students. Companies such as ENAGEO, SCHLUMBERGER, and SCHNEIDER in addition to others were present with their recruiting managers to help the students make their first steps in the world of industry by explaining what profiles such companies are looking for. In the first part of this event, each company gave a presentation about the products and services it provides. Then, jobs and internship opportunities were discussed in the afternoon. Sponsorship Initiatives between the participant companies and the institute administration were also set up.

These sponsorships will be very helpful to supply the institute with all the necessary equipments and tools that would be of assistance to the students in their studies.

As this event was the last in 2012's season, the club honored the great achievements of its members. The first honor was given to the team LGERIA that took the name of the club so high after being ranked second in LG Global Challenger with a project for a device that facilitates the communication between the hearing impaired and the outside world. The Logic Gates deserved a great honor, as well, after ranking first in Africa in "24 heures d'innovation" competition with a project that makes the life of the visually impaired much more easier, and lowers their dependency on other people. INELEC'ers were also present in "Microsoft Imagine Cup" after the DZigners, a team of talented

students in their very first experience in this competition, made it to the final eliminatory round in game design field and they received a special honor too for this encouraging achievement.

The IGEE and INDUSTRY Day was the final line in 2012's chapter. The atmosphere was so fraternal, and all the attendees lived great moments during the whole day. The season being over, it was time for some rest, for some brainstorming, and for more shining stars to take their places and keep the sky of our club shining in the coming seasons ■

Interview with

Amine BOUNOUGHAZ

By **Abdelkader ALLAM** (2nd MA Eng & Lit, ex-INIM)

Amine is a recent graduate engineer from ex-INELEC in Boumerdes. He is a “technology enthusiast” who has taken part in many local and international competitions. Last July, his “Klein Team” got the 3rd place in the International Competition Imagine Cup 2012, and on October 15th won the 1st prize in the Algerian Startup initiative that will help him and his team “turn ‘DiaLife’ into a finalized product”.

Q. Amine, last July you were part of the “Klein Team” that won the third place in the international competition Imagine Cup 2012, can you tell us a little bit about it?

Indeed, I was very fortunate to be a member of “The Klein Team”, the first Algerian team to ever step on the podium of Microsoft Imagine Cup, the world’s biggest technology competition for students. It was something I always wanted to do, ever since my first participation in 2010, I wanted to win big at Imagine Cup before leaving university and Elhamdoulillah I did.

My Imagine Cup team was constituted of two exceptional individuals: Tahar ZANOUDA from ESI and Amine ABOURA from Chlef University who, besides being geniuses and visionaries, also master the art of team-play.

Together, and along with over 350 other teams from all over the world, we competed in Imagine Cup Azure Challenge, the cloud computing challenge of Imagine Cup with our project DiaLife, a complete solution for diabetes management. And fortunately, we made it to the top 3 worldwide.

Q. When was the first time that you participated in this sort of international competitions?

My first participation in an inter-



Amine Bounoughaz during a press conference organized by Microsoft Algeria

national competition was actually Imagine Cup 2010 when I was a 3rd year student. I was lucky to be part of a wonderful team, Aurora-Future. We worked on a project called “Live and Help”, a platform that aims to make volunteering easier for people and for NGOs. I even wrote an article about it on the very first edition of Inelectronics Magazine.

Q. How did you become interested in getting into these contests? Could you tell us about your start and the motivation behind it?

I think it’s because of many factors. Student competitions are a great way to showcase your talent and creativity, it is really an opportunity

to break your daily study routine and do something completely new and challenging, a unique chance to get out of your comfort zone and learn new skills, work in a team, brainstorm for ideas and employ technology to solve a real world problem.



The Klein Team honored on December 5th by the Minister of Youth and Sports, M

Besides the great things you learn, you also get to measure up against other students from other universities in the country, region and even worldwide. You get to expand your network and meet people who share your passions and interests.

Q. Was it difficult for you to manage your studies and all the other extra-curriculum activities that you had?

Well you do have to compromise to some extent but on the overall, when you are passionate about what you are doing, when you have a great team that supports you and when you have some rigor in managing your time, you won't run into troubles.



The Klein Team announced 3rd place winners in the Imagine Cup Finals

business and venture creation. And so we had to compose a business proposal or what is called a "business plan" to participate. It was a great experience because once again, we were challenging our-

selves by stepping into an unfamiliar world, the business world. Out of many business plans and projects, ours stood up to be the 1st prize winner of the Algerian Startup Initiative.

Now, we received enough funding to open our start-up. We are in the process of finalizing all the paperwork (which is a LOT by the way) and hopefully

we will turn DiaLife into a finalized product.

Q. How would you describe your years at ex-INELEC generally and Inelextronics Club specifically?

The five years I spent at Inelec were definitely some of the best years of my life so far. I was extremely fortunate to have faculty members and professors who believed in students' potential, people like Pr. Hamdi (Allah rest his soul), Dr. Cherifi, Mr. Yelles, Mr. AitKaid...

But Inelextronics was definitely the best part of Inelec. Not only I had tons of fun at the club, but I also learnt a lot through organizing and preparing for events like the Alumni

Day, working on the magazine... It really helped me shape my perspectives and grow as a person.

Q. What do you say to the Algerian students who are still hesitating to participate in such competitions?

I only have three things to tell you: first **Get a great team**, second **Find an amazing idea** third **APPLY!** Even if you don't win, don't get disappointed, just take it as a learning experience and keep going: **PER-SISTANCE is the key to success.**

Q. Any final words?

I think my message to all students, and specifically to INELEC students, is to believe in themselves: Nothing is beyond your reach; you are only limited by your own thoughts. So do yourself a favor and don't put a bar on what you can and can't do. Instead, be willing to step out of your comfort zone and try new things, new experiences, apply for competitions, and challenge yourself. Winning comes through perseverance, through trial and failure and not through watching passively from the sidelines. Whatever happens, take it as a learning experience and Inelextronics is a great place to start ■



Amine presenting the "Klein Team" 's business plan to the Jury In the Algerian Startup Initiative

Q. After you have won the 1st prize in the Algerian Startup initiative, what do you plan to do next?

Algerian Startup Initiative, unlike Microsoft Imagine Cup, is all about



Mr. Mohamed Tahmi

If your photos are not good enough, that means you are not close enough

By **Hanane KAOUANE** (L03)

"Photography to me is a passion, it is the perfect way to express my vision, and the best way to make the others see the invisible properties of anything, photography makes the picture speak up."

Here at INELEC, a 4th year student, an active and a skilled person, Mebarki Mohamed Razine, one of the best young photographs at ex-INELEC. Razine is the winner of the first place on "le jour de la photos" organized by Samsung at the commercial center of "Bab Ezeouare" in Algiers as the best one in doing a portrayal.

Razine has had a love for pictures since he was a child and started taking pictures when he was fifteen years old. He first started off by taking pictures to any object he liked or found interesting like landscapes and figures. After that, with the help of his friend, "Aberkane Oussama" one professional photograph, Razine began working in a professional way, the way of technical photography.

He started photography i.e. the technical photography in November 2011 when he bought a camera and after hard work. He read books about photography and sought, of course, the help of his friends to achieve this. In addition to his activities, studies, and photography, Razine is doing Wing Tsun as a second hobby, and he is one of the founders of an Art association with the name of "Sow



Art" which includes fifteen members, eight of them are photographers.

Razine says that to get something: "love it first, believe in what you are doing, don't be afraid because it is not with fear that you can realize your dreams". He thinks that the best way to achieve one's goal is through working with a group of people, finding some people and making them love what we love or find someone who is interested in what we do no matter what the activity is and work with them ■



Mahdi GACEM
Portray winner in "le jour de la photos" Babez



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Change Your World**

