Mohamed Maoui

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OBJECTIVE

My principal aim is to obtain a strong research experience to sharpen my knowledge and to be one day able to solve most challenging real world problems.

EDUCATION

Ecole Nationale Polytechnique*(Top engineering School in Algeria)*   2015 - present
Electronics and computer science engineering

National Contest for accessing Engineering Schools.   June 2015
The contest is taken after the two years between all the students around the country in preparatory schools to access top engineering schools by rank.
Record: Ranked 11th among more than 750 students around the country.

Preparatory School of science and Techniques*(EPSTA).*   2013 - 2015
Record: Ranked top 5% among more then 200 students.

Baccalaureate diploma   June 2013
Scientific stream graduated with honors.
Record: Ranked 3rd among more then 600 students.

inter-high schools national competition   April 2013
Qualified to the finals of the competition

Birtouta High school.   2010 - 2013
Record: Ranked 1st among more than 600 students in the first and the last year and 2nd in the second year

EXPERIENCE

Working in collaboration with different professors from the hydraulic department at l'Ecole Nationale Polytechnique   March 2017-Present

Creating different electronics and technological systems to solve the different problems studied at the Hydraulic department.

Intern at Ecole Nationale Polytechnique **under the supervising of Professor Rabah SADOUN.**   January 2017-present

- Development of web application for mapping using the properties of Openlayers
- Presenting the work in a seminar at l'Ecole Nationale Polytechnique

Intern at CERIST(Centre de recherche en informatique et sciences de la technologie)   March 2017-Present

- Discovering the role of the researcher in the research center.
- Theoretical study of the wireless sensors nework (WSN)

- Working on the interface of communication between the WSN and the smart phone in order to find new solutions to the better use of the Internet of things.

Academic advisor for the Algerian youth program (Berlitz School and the US embassy) February 2017

Giving reference letters for the students of the Access program in order to select the best candidates for the Algerian youth program.

Collaboration with the international robotics team Cyborg December 2016-Present

A member of a robotic team composed of different engineers and students in order to work on different robotics complexes problems and to participate in different international robotics competition.

Integration to the Google Developers Group (GDG)at ESI(Ecole Nationale Suprieure d'informatique) October 2016-Present

- A member of Agenda department that deals with the preparation of all the speakers and the selection of the big event of the web and google for the GDG group.
- Participating in the different web trainings and competitions.

Summer camp program 2016 -El Amel project June 2016-September2016

Participating in a summer english training club (being involved in the different activities (competitions and quizzes that were organized by the different clubs)

Trainer at General-Electric (Sylabs) Internet of things. August-October-October 2016

Training young Algerian students on the new concepts of the Internet of things through the different electronics projects and coding sessions.

Mentor at SoS Ousted-Imadrassa April 2016 -Present
Giving online lectures for Algerian students from different spots of the country at different level in mathematics , life science , physics ..

Intern at the ENNA(Etablissement Nationale de la navigation Arienne)
December 2015-January 2016

- Introduction to the different techniques of civil detection plans and working on Radars
- working on some telecommunication project in the laboratory of Hyper-frequency

Particular lectures (Volunteer) 2011-Present
Giving support courses for students of different levels preparing for their final entering exams.

TECHNOLOGY SKILLS

Programming Languages: C, C++, Python, MATLAB, VHDL.

Microsoft Office: Word,Excel and powerpoint.

Web Programming : CMS (Joomla),HTML5,CSS3, Javascript and PHP.

Engineering Software: ISIS Proteus, Orcade Cadence, MATLAB, MULTISIM,Simulink MODELSIM, Quartus, Qsys, Altera Monitoring program, Keil 4,virtualBox.

Operating Systems: Microsoft Windows, Linux (Ubuntu, Kali).

Electronic Boards: Raspberry Pi, Altera DE1-SOC FPGA, Arduino (Uno, Mega, Nano), Mbed NXP LPC1768.

EXTRA-CURRICULAR ACTIVITIES

Club d'Activite Polyvalent(CAP). (Versatile Activities Club)   2015 - Present
Active Member in the Project Department and the Hi-Tech Section.

- Organzing "Reussir sa prpa event" in order to help preparatory students to gain the best habits to prepare their entry final contest to the engineering school. . September 2015

- A member of Celebra science event , responsible of the different technical projects that were exposed from each department of the school to celebrate the science.   April 2015

- Organizer of" the engineering fields presentation"event to help new admitted students to choose their specialization   September 2016

- Developing of a software system of voting for the elections of the clubs.

- A member of the admission committee for selecting the best candidates to admit to the club(reviewing the applications,interviewing , evaluating the candidates and making the admission decision   September-October2016

Fabric Laboratory of Electronics department.   January 2016 -Present

- Participation in line following robot competition, organized by the club (Winner of the competition)

- A member of the club Mentor for the first year students.

    Eurobot Contest   December 2016 -Present

- Building of the location tag system for the competition

- learning many management aspects and leadership

Participation in Boost Innovation   September 2016

The theme of the competition : Find a way to detect unseen damp with new technology

Electronics accomplishment   September2015-Present

Arduino and microcontroller projects: Radar ,softwar system for voting used by the clubs of the school and worked as a trainer for IOT technologies

Spelling bee competition   July 2016

Participation in the spelling bee competition organized at Berlitz School in collaboration with the Us embassy

Personnel interest **Poetry:** I have been written since i was 9 years old.

Sport: Karate , experience of 3 years at the main club of Birtouta .

Machine learning and data science: participation in different training organized by Big-Mama company .

Biology and chemistry

Philosophy

LANGUAGES   **English:** Very good.

French: Very good.

Arabic: Native language.