



# Ouelaa Zakarya

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About me: I am a PhD student at University 8 Mai 1945 Guelma, majoring in Mechanical Engineering, I am seeking for internships to get research experience

## ● WORK EXPERIENCE

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13/07/2020 – CURRENT – Guelma, Algeria

### **OPTICS TEACHER – Private Training Center**

## ● EDUCATION AND TRAINING

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11/09/2013 – 29/06/2014 – Bouchegouf

### **Scientific Baccalaureate – Zantar Slimane secondary school**

11/09/2016 – 29/06/2017

### **Bachelor's Degree in Mechanical Construction**

Concerning my third year, I joined the Erasmus Mundus Programme and studied Mechanical Engineering in Porto, Portugal.

- I worked on two projects :

The first one was conceiving and designing a Gearbox for reducing the speed from 2800(rpm) to 140(rpm).

The second project was in Material Selection, choosing a new material to build a bike with high performance and low cost.

- I learnt how to use one of the best software in studying the performance and simulation of engine (Lotus Engine simulation).

14/09/2018 – Annaba, Algeria

### **Basic instrumentation training – STS school**

- Practical training in sensors and drives using Siemens PLCs.
- Implementing PID and electrical diagrams.

14/09/2018 – 13/07/2019

## **Master degree in Mechanical Construction (Bac+5)**

- Top of my class in the field of mechanical construction.
- Internship at INSA (Lyon, France), to work on my final project.
- In the final project, I worked on the application of sound perception for the diagnosis of gears faults.
- I learnt the techniques of measuring vibratory, and acoustic signals on rotating machines by the PULSE LabShop software, as well as several methods of processing signals, such as spectral, cepstral, envelope analysis and multi-resolution analysis in wavelets.

15/12/2019 – 17/12/2019 – Oum El Bouaghi, Algeria

## **Certificates of Attendance (ITDSE 2019) – Institute of Sciences and Applied Techniques**

International training days of science and engineering under the following trainers : Pr. Cherif CHIBANE /Dr. Mohamed RACHEDINE /Dr. Khaled BOUNAR, from United States of America in the Advanced applied science and technology for the advancement of society.

They Focus in:

- FPGAs technologies.
- Embedded systems in IoT.
- Mechatronics.
- System Engineering.

29/10/2019 – Guelma, Algeria

## **Certificate of Attendance – Pole pro-University 8 Mai 1945**

- Design thinking workshop (The Value Propositions and Business Model canvas) with Mr. Abdelaziz BENKIRAT responsible of CATI center.

29/11/2019 – 02/12/2019 – Constantine , Algeria

## **Innovation and Entrepreneurship Conference – University of Constantine 2**

- Participate with a team of multidisciplinary students from University 8 Mai 1945 Guelma, in the ID Tour challenge to realize a project in just 24h, and then evaluated with a team of ANVREDET jury.

23/02/2020 – 26/02/2020 – Algeria

## **congrès algérien de mécanique – University of Ghardaia**

I participated with three national communication.

## ● CONFERENCES AND SEMINARS

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26/02/2020 – University of Ghardaia

### Identification de la Gravité des Défauts d'Engrenage par la Perception Sonore

25/02/2020 – University of Ghardaia

### Equilibrage Un et Deux Plans d'un Rotor Par le Logiciel Balancing Consultant

University of Ghardaia

### Influence du Filtrage des Signaux sur l'Identification de la Gravité des Défauts d'Engrenage

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## ● LANGUAGE SKILLS

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Mother tongue(s): **ARABE**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ANGLAIS</b>	B2	B2	B2	B2	B1
<b>FRANÇAIS</b>	B1	B1	B1	B1	B1
<b>PORTUGAIS</b>	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

- Good communication skills in English, which I learnt during the year of study in Portugal to be able to communicate with people from different nationalities.
- Acceptable communication in French.
- Basic knowledge in Portuguese.

## ● DIGITAL SKILLS

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Microsoft Word | Microsoft Excel | Power Point | Adobe Premier Pro | Adobe Photoshop | Adobe Illustrator 2020 | BK PULSE LabShop | SolidWorks (Intermediary)

## ● ORGANISATIONAL SKILLS

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### Organisational skills

- Use the "SCHENCK" for the balance of rotating machines.
- Use "Consultant Balancing Software" for balancing of rotating machines.
- Good knowledge in electronics.
- Member of the Scientific Club of the Automatic.
- Member in Guelma Cycling Club (VTT).
- Motivated and very well organized.
- Able to work in a team.
- Punctual and a good time manager ..

## ● DRIVING LICENCE

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Driving Licence: **B**