



Mo'men Yaseen

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ABOUT MYSELF

I am an innovation-driven Mechanical/Industrial Research Engineer with a Master of Research degree in Industrial Engineering from one of France's top engineering universities. With three years of academic-industry experience in mechanics, manufacturing technologies, and surgical device platforms, I am passionate about applying my diverse skill set to drive innovation and excellence in a dynamic industrial environment.

WORK EXPERIENCE

07/2024 – 10/2024 Perth, Australia

DESIGN AND MANUFACTURING PROJECT MANAGER ADARSH AUSTRALIA - AU VISA EXPIRED

1. Performed measurements and reverse engineering techniques using tools such as vernier caliper, CMM, and thread gauges
2. Prepared 3D models, drawings, assemblies, and modelled 3D-scanned objects in SolidWorks to advance design for manufacturing, leading to final product experimentation.
3. Created products and mechanisms to serve the *medical, nuclear, electrical, and chemical sectors.
4. Managed projects, evaluated product quality, wrote quotes, and ensured timely project delivery.

09/2023 – 06/2024 Sydney-Doha, Australia

MECHANICAL CALCULATION ENGINEER/CAD/CAM ENGINEER - HYBRID HIGH ALTITUDE PROJECTS AND UNIVERSAL GASKETS

1. Detected and resolved structural mechanical problems, defined calculation methodologies and processes to enhance analysis accuracy and efficiency.
2. Created, modified, and improved the overall finite element models using Ansys Mechanical (fatigue analyses).
3. Took measurements using digital calipers to confirm the thicknesses and dimensions of various materials.
4. Used SolidWorks to design gaskets for manufacturing with various CNC machines, such as flatbed cutter routers.

10/2022 – 06/2023 Villejuif, France

LECTURER OF PHYSICS COLLEGE OF ENGINEERING AND COMPUTER SCIENCE - EPITA

1. Taught 1st-year students (approx. 110) the Physics of Mechanics and lectured 2nd-year students (approx. 95) the Physics of Electronics: Gauss's, Faraday's and Biot-Savart Laws, Electric Motors, Magnetic Field Sources, Mass Spectrometry, and Maxwell's Equations.
2. Corrected exam papers, exchanged ideas with teachers about subjects' materials, and attended class councils.

09/2022 – 05/2023 Ivry sur Seine, France

LECTURER OF APPLIED AND THEORETICAL MECHANICS SPECIAL COLLEGE OF MECHANICS AND ELECTRICITY - ESME SUDRIA

1. Prepared syllabi of Mechanics for 4th and 5th-year students (approx. 78) at the Faculty of Design Engineering.
2. Delivered lectures in Strength of Materials, Fluid Dynamics, and Mechanical Vibrations.
3. Lectured students on the FEM/FEA, using ANSYS and supervised final-year thesis projects and served on jury committees.

07/2021 – 08/2022 Lusail, Qatar

MECHANICAL STRUCTURAL ENGINEER HIGH ALTITUDE PROJECTS - WORLD CUP CONTRACT OF ONE YEAR

1. Collaborated with engineers to define design and technical requirements for modelling and simulating shade structures, reviewing calculations, drawings, and materials considerations.
2. Worked closely with clients to understand their needs and provide tailored design calculations and solutions.

11/2020 – 07/2021 Lille, France

STEM INSTRUCTOR (REMOTE) PRIVATE TUTORING - DURING COVID LOCKDOWN

1. Held tutoring lectures for various engineering subjects for Bachelor-level students and assisted them in becoming familiar with the structure of reports and numerical methods for scientific purposes.

03/2020 – 09/2020 Châteauroux, France

RESEARCH ENGINEER - DESIGN AND OPTIMISATION OF A SURGICAL DEVICE (CONTRACT WORK) JUNIA-HEI

1. Optimised a surgical platform based on the research of Chah et al. (2020) for 3-DoF wireless micromanipulation in robotic technology, allowing greater precision, control, and workspace volume.
2. Created an electromagnetic (EM) coil configuration with a focus on concept discovery, COMSOL.
3. Modelled the fluid-dynamic behavior of the microrobot in motion against pulsatile blood flow, MATLAB.
4. Designed the global system in SolidWorks, then used 3D printing to manufacture some components.
5. Simulated the heat generated by the coils to identify suitable materials and open new avenues for researchers.

09/2017 – 05/2018 Seri Kembangan, Malaysia

RESEARCH PROJECT (HONS) - DESIGN AND ANALYSIS OF COMBUSTION CHAMBERS (BENG THESIS) UNIVERSITI PUTRA MALAYSIA

1. Designed three combustion chambers, namely the hemispherical, shallow depth, and rectangular shapes, ANSYS Workbench.
2. Defined and analysed the kinetics behavior of reacting gas mixtures of all species and chemical reactions in the combustion chambers, CHEMKIN format and ANSYS Fluent.
3. Worked on HCCI engine in the laboratory, validated the numerical study of Anetor et al. (2012), developed a well-structured report, and compared experimental against numerical results.
4. Displayed results for all models, including temperature, pressure, flame diffusion, and emissions, etc.

06/2017 – 09/2017 Duhail, Qatar

INDUSTRIAL ENGINEERING TECHNICIAN INDUSTRIAL TRAINING - MECHANICAL ENGINEERING INTERN

1. Received comprehensive training in HVAC devices, pressure vessels, pumps, fittings and heat exchangers.
2. Gained knowledge in fire fighting systems, including fire pump room operations and various pump types and fittings.

● **EDUCATION AND TRAINING**

10/2018 – 08/2020 Lille, France

MASTER OF SCIENCES, TECHNOLOGIES, HEALTH. MAJOR IN INDUSTRIAL ENGINEERING Arts et Métiers ParisTech

Website <https://artsetmetiers.fr/fr>

09/2014 – 08/2018 Serdang, Malaysia

BACHELOR OF MECHANICAL ENGINEERING (HONOURS) Universiti Putra Malaysia

Website <https://upm.edu.my/>

● **LANGUAGES**

Arabic/English/French

● **DIGITAL SKILLS**

SolidWorks | ANSYS | Python | Deep Neural Networks (CNNs, GANs) | COMSOL Multiphysics | MATLAB

● **HONOURS AND AWARDS**

10/03/2010

Award Certificate of Excellence - UNESCO, Al Raya Newspaper, March 10, 2010.

Link <https://sites.google.com/view/certificates-award-momen/home>