

## Mohamed Ammar

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### PROFILE

A highly motivated graduate mechanical engineer seeking a PHD position that will enable me to capitalise on my education and work experience, with a real passion for problem solving, creativity, innovation, drive and motivation, a keen ability to improve design components, increase product and manufacturing efficiency, and decrease the constant need for re-engineering. Having a desire to expand my knowledge and offer opportunities for personal and professional growth.

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### KEY SKILLS

**ANALYTICAL THINKING:** Having strong analytical skills which lead to successful problem solving.

**PROBLEM SOLVING:** Sharp analytical thinking which provide optimum solution.

**COMMUNICATIONS:** Able to explain ideas clearly and effectively in both written and verbal.

**MATHEMATICAL:** Able to apply mathematical skills to analyse problems and design solutions.

**CREATIVITY:** Able to develop and design new products.

**TEAM WORK:** Able to work with a diverse team of people to achieve the best result.

**SOFTWARE:** C++, Python, PTC-Creo (3D), CATIA V5 (3D), Techsoft 2D, DraftSight 2D, Solid works, Auto Sketch, CES Edupack, StarCCM+, Abaqus, Matlab and Microsoft office.

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### ACADEMIC ACHIEVEMENTS

**2016-2019** BEng MECHANICAL ENGINEERING @Queen Mary University of London (Ex: First Class)

**2014-2015** HIGHER EDUCATION DIPLOMA – ENGINEERING SCIENCES & MATH @Newham College (Distinction). **Modules included:** Mathematics, Physics, English (Research Skills), Engineering Structure and Programming, C++.

**2013-2014** LEVEL 5 AND 6 Diploma IN COMMERCIAL STUDIES:( Distinction).**Modules included:** Money and Banks, Production Management, Marketing Management, Accountancy, Firms Accounting, Financial Mathematic, Pure Mathematic, Economics, Microeconomics, ICT, Insurance law, Commercial law, Mathematics/Statistics, English.

**2009-2012** LEVEL 3 AND 4 DIPLOMA IN COMMERCIAL STUDIES: ( Distinction) **Modules included:** English Language and Translation, Arabic Language, ICT, Machine Writers (Manual and Electric), Commercial Insurance Accounting, Insurance Legislations, Insurance Advantages, Insurance Institution Management, Marine and Aviation Insurance, Reinsurance, Production and Collection.

**2009-2010** DIPLOMA LEVEL 1 AND 2 IN I.T. (NEW CLAIT and CLAIT PLUS)

**2007-2009** A LEVEL ( A\*). **Modules included:** English, Mathematics, Biology, Physics, Chemistry, Bangla, Arabic and Religion studies

**2005-2007** GCSE ( A\*). **Modules included:** English, Mathematics, Biology, Physics, Chemistry, Arabic and Bangla.

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## **EMPLOYMENT**

**2016**      **CONSULTANT MECHANICAL ENGINEER @ ARUP** Typical responsibilities include:  
Designing, calculating and specifying building services systems, including heating, ventilation and cooling. Designing environmental and energy strategies and masterplans. Developing sustainable design solutions for building environments. Preparing sketches, drawings and models. Spatial coordination, including the use of 3D and Building Information modelling (BIM). Undertaking technical studies and writing reports. Visiting construction sites and liaising with contractors and commissioning engineers.

## **SELF-EMPLOYMENT**

**2012-2015**    Set up my own Project at Praxis Community Projects - Bikes without Borders. The project involved teaching road health and safety as well as teaching bike's mechanical skills, then giving bikes for free to students, elders and refugees or those who cannot afford public transport.

## **ADDITIONAL PROJECTS**

**2018-Present:** Research, Structure & Design of Electro-Magnetic Tweezer @ QMUL, Advanced Chemical lab

**2017-Present:** Research, Structure & development of NMR @ QMUL, Advanced Chemical lab.

**2016-Present:** Research, Structure & control of a robotic arm @ QMUL, Advanced Robotics lab.

## **VOLUNTEERING WORK**

**2012-2015**      **CAMPAIGN LEADER**

For Brighter Future Group for many different initiatives @praxis community projects.

**2013-2014**      **FACILITATION/LEADERSHIP TRAINING @ Kazoom,** and used this, during 2014, to assist in facilitating a youth group at Praxis Community Projects.

**2013-2014**      **RESEARCHER:** Attended the Joint Committee of Human Rights inquiry into the experiences of unaccompanied young migrants, which was held at the Houses of Parliament due to the conducted research.

**2012-2013**      Conducted research about the cost of waiting for the Home Office immigration process (Brighter Futures Report). The final report available here:  
[www.brighterfutureslondon.co.uk/wpcontent/uploads/2013/07/The-Cost-of-Waiting-ALL-1UPWeb.pdf](http://www.brighterfutureslondon.co.uk/wpcontent/uploads/2013/07/The-Cost-of-Waiting-ALL-1UPWeb.pdf).

**2012-2013**      Involved in a project researching the experiences of young care leavers, supported by Praxis Community Projects. I received training in research methods and interviewing/communication skills from Queen Mary's, University of London In April 2012. I helped to organise the Brighter Futures Social Worker Awards held at the Bishopsgate Institute.

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## **HOBBIES AND INTERESTS**

Hobbies include working with auto-electronics when opportunities are presented to me. I also enjoy experimenting with Arduino projects ranging from simple addressable LED projects to a custom 3D printer and full mechanical systems.

I love and enjoy traveling which allow me to discover the world's incredible cultural diversity, gets me out of my comfort zone, puts life in perspective, and I love Cycling which in turn keeps me fit and healthy. As well as I love reading which increases my knowledge and awareness.

## **REFERENCES**

Provided on request.

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