

Ali Atiea

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Personal profile

I have recently completed my Postgraduate degree in Mechanical Engineering at Aston university as of 2018, with an expected 2:1 or above grade. I aspire to secure a position within the engineering industry to gain experience to help develop my skills in becoming a better-rounded engineer. I believe my greatest strengths to be my ability to work hard, reliably and conscientiously as well as integrate effectively in a team. 'Continuous Effort' is the very basic foundation I adhere to and I intend to continue applying this throughout my future careers.

Education

Aston University

MSc mechanical Engineering (Expected 2:1 or above)

2017-2018

- Major Project – Importance of K-wire positioning in improving tension band wiring for transverse patella fracture fixation. **(Abstract submitted to the Orthopaedic Research Society as of 26/08/2018)**
- Research Project.
- Design Studio.
- Project Management.
- Practical Numerical Methods.
- CAD Principles & Material Selection.
- Sustainable Energy.
- Computational Fluid Dynamics and Applications.

BEng Mechanical Engineering(Hons)(Overall2:1)

Year3(2:1Overall) Modules:

2015-2016

- Advanced Thermodynamics and Fluids.
- Heat Transfer and Turbomachinery.
- Energy Efficiency.
- Engineering Design and the Environment.
- Design Failure Analysis.
- Advanced Dynamics and Control.
- Advanced Systems Design.
- Solid Mechanics and Finite Element Analysis.
- Individual Main Project – Concussion Related Injury in Sport and Engineering Solution/Analysis.

Year2 (2:1Overall)

2014-2015

Modules:

- Thermodynamic and Fluids.
- Engineering Mathematics 2.
- Quality Engineering.
- Engineering Materials.
- Solid Mechanics.
- Dynamics and Control.
- Design for Use (Group Project).
- Engineering for Industry (Group Project).

Year1 (1stOverall)

2013-2014

Modules:

- Mathematics for 1st year Engineers.
- Transition Mathematics for Engineers.
- Engineering Science.
- Electronic Engineering Foundations.
- Design and Experimentation (Group Project).
- Prototyping and Development (Group Project).

Engineering Foundation Degree (1st Overall)

2012-2013

Fairfax Sixth Form School

A level: Maths C, Drama and Theatre Studies C, History D

2011-2012

GCSE: 9 GCSE's A – C including Maths A and Science B

2009-2010

Employment History

Tesco New Oscott

Sep 2016 – Sep 2017

- The role given was primarily to stack the delivery products onto the shelves within the store. Other roles included working with other departments to make sure the delivery was pulled out from the warehouse and splitting the products into the required department to go to.
- The main responsibility was to ensure that the deliveries were to be completed by making sure to stack every product given. Deliveries range from 2 to 3. During Christmas time, deliveries range from 5 to 7.
- One key achievement made through the job was the completion of 3 deliveries with only two people including myself and a colleague. This would usually involve 3 or 4 colleagues to handle.
- A secondary key achievement was completing the produce department and moving on to other various departments to help, ensuring as much stock is supplied to the customers as possible.

Asda Minworth Hypermarket

Aug 2015

- The job role given was shelf stacking in the produce sector.
- Worked effectively and reliably in a moderate to large group consisting of approximately 10 colleagues within the produce sector.
- Established a key skill in communicating with the customers responsibly and humorously.
- Gained some industrial work experience from one of the top grocery stores.

Victoria Road Dental Centre (Work Experience)

Jan 2010

- Observing and gaining an understanding in the relationship between the doctor and nurse with the patient has enabled me to enhance my attention to detail.
- Examined the materials and objects used within the check-up room such as the projected 3D CAD image of the teeth design.

Fairfax High School (Work Experience)

Jan 2010

- Working in the drama and theatre department.
- Technical management was my specific role in which entailed organising the lighting and sound systems.
- Applied co-operation and became a sound team player for when certain jobs had been allocated to me and my team by the manager.

Good Hope Hospital: National Health Service (NHS) (Work Experience)

Dec 2009

- Worked within the Pathology Department.
- Experience gained on how patients are dealt with in a friendly manner within the hospital.
- Experience gained on the appliances used in the hospital such as the centrifugal blood mixer.

Skills and Achievements

- **Certified Solid works Professional (CSWP)** – I have passed the examination for the CSWP course in 2015 and have been provided with the certificate for it.
- **Driving License** - Full UK Driving license with pass plus since 2012.
- **CAD/Matlab** – Intermediate understanding of SolidWorks and Matlab.
- **Ansys** – I have a basic understanding of FEA and CFD analysis within Ansys software.
- **Lab work** – Cyclic bending, tension and compression has been experimented with using the electroforce 3230.
- **Simapro** – An understanding in the Life Cycle Assessment tool used in the Simapro software.
- **Python** – Very recently have signed up to the codecadamy online and started to learn the basics of programming language.
- **Communication and teamwork** - Able to communicate and provide effective teamwork to other members as well as customers.
- **Leadership** – I have been team leader for 2 semester long group projects.

- **Innovation** – Working on projects at Aston University has provided me with an open mind to share out with the team.
- **Team player** – I can follow and complete tasks that have been given to me as well as help other team members.
- **World Challenge Expedition** – I have taken a month off in the summer of 2012 to go to South America in Peru whereby I took on a challenge of climbing a mountain; Ausangate and had reached around 5000m above sea level. In addition to this, I have helped a nursery school in a village by building and making toys for them for one week.
- **Duke of Edinburgh** – I have completed both bronze and practice gold DofE treks.

Hobbies

- Gym and exercise as well as macro control.
- Learning new programming languages such as Python.
- Creating 3D objects using Solidworks from time to time.
- Learning to use the adobe photoshop software.
- Spend some time on YouTube to learn and gain insight on various applications.

References

Dr Sarah Junaid, lecturer, Mechanical Engineering and Design, School of Engineering and Applied Science, Aston Triangle Birmingham, West Midlands B4 7ET. S.junaid@aston.ac.uk

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