Aadil

Dubai, United Arab Emirates

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Date of Birth: 7th July 1995 | Nationality: Indian | Holder of UAE Driving License

# OBJECTIVE

As a Mechanical Engineering Graduate from Heriot-Watt University with a Second-upper class (2:1) degree, I would like to gain exposure in the field of engineering and utilize my knowledge in engineering concepts, management and positive communication skills. Also, to work in a challenging environment demanding all my skills and efforts so as to explore and adapt myself in different fields.

# EDUCATION

**B.Eng.Mechanical Engineering (Hons)**September 2014 – May 2018

**Heriot-Watt University Dubai Campus, UAE.**

**CGPA: 3.1/4**

Final Year Dissertation: Structural and vibrational analysis of a composite control arm.

**Schooling**May 2010 – May 2013

St. Thomas Residential School, Thiruvananthapuram, Kerala, India.

**ISC Class 12:** 78%

**ICSE Class 10:** 79%

## WORK EXPERIENCE

**Global Engineering Systems FZCO** (Sharjah, UAE) July2017 – August 2017

*Engineering Intern.*

* Contributed to the Design Team in developing and planning a drip irrigation system with the treated water from a sewage treatment plant for RAK Ceramics.
* Worked with the Engineering and Maintenance team for various ongoing works of sewage treatment plants in SEWA, SAIF Zone and JAFZA.

**etaone orient FZCO** (Dubai, UAE) June 2017 – July 2017

*Mechanical Engineering Intern*

* Worked with the Testing and Maintenance Department in checking all components, proper working, service and repair of the generators installed by the company in Khazna Data Center, Dubai.
* Being an apprentice to the senior engineer of the company, gained knowledge in generator installation, service and repair.

**Final Year Dissertation- Analysis of Carbon Fiber Control arm.**September 2017 – April 2018

* Researched in current Carbon Fiber technologies in the Automobile industry.
* Improved the mechanical properties of Carbon Fiber by changing the fiber distribution using Digimat FE.
* Applied the above developed properties to the control arm of a car and conducting FEA and vibrational analysis using Ansys.

**Industrial Project –Design and Fabrication of a walking bicycle prototype**

*Fractal Systems FZCO, Silicon Oasis, Dubai.*October 2017 – April 2018

* Researched on and applied the Theo Jansen walking Mechanism for the bicycle maneuver.
* Designed the prototype using Solidworks and conduction of FEA Analysis using Abaqus/Solidworks with the Guidance of Chief Engineer in Fractal Systems.
* Developed a factory layout for the mass manufacture of the certain bike prototype.

**Designed a basic layout for an oil pipeline in the North Sea** February 2017 – March2017

Designed a layout for an oil pipeline from a refinery to a reservoir in the North Sea. The design also included finding the apt material and thickness of the pipe, placement and type of pump that had to be used.

**Design and FEA of a connecting rod and piston assembly for a 4 stoke engine using Abaqus.**

October 2016 – December 2016

FEA analysis of connecting road piston assembly using Abaqus FE software for a four-stroke gasoline motorbike engine so as to learn and gain experience in the design procedures for Abaqus FE.

**Developed a business plan for setting up a glass wool factory in JAFZA, Dubai**.

September 2016 – December 2016

A group project had been conducted in order to set up a glass wool manufacturing plant so as to produce glass wool from waste glass. Many sustainable etiquettes and standards were considered in setting up the manufacturing plant design.

**SKILLS AND INTERESTS**

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| **Languages known** | English (Fluent), Malayalam (Fluent), Hindi (Fluent) |
| **Interests** | Procurement, Project Planning, Energy and Sustainability, QC/QA, Safety, Product Development, MEP, Estimation, CAD/CAM, MRP/CRP, Production and Planning Control, Project Management, Facilities Management, Sales and Marketing |
| **Softwareskills** | * AutoCAD – 2D plans modelling, 3D modelling. * Creo Parametric – 2D, 3D modelling and animations. * Solidworks – 3D CAD designing and modelling. * Abaqus – Finite element analysis and vibrational analysis. * Digimat FE – Material modelling of composite materials. * Ansys – Structural modelling and FE analysis, CFD. * Revit -Mechanical, Electrical and plumbing disciplines modelling in high detail level aiding in infrastructure designs. * Microsoft office – Strong base and experience in Word, Excel and PowerPoint. |

*\*References and additional information will be gladly provided upon request*