

Ch Abdul Rehman Raza

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EDUCATION

B.E. Mechanical Engineering 3.66/4.00 09/2013-06/2017
National University of Sciences and Technology, Pakistan

WORK EXPERIENCE

Bright Engineering B.V. 08/2017-7/2018

- Position held: Junior Project Engineer
- Worked on mechanical design engineering projects from European companies
- Did Finite Element Analysis, CAD and Detail Engineering

Engro Fertilizers Ltd. 6/2016-7/2016

- Position held: Intern
- Worked in Engineering Mechanical department of Engro Fertilizers Urea plant

Pakistan Aeronautical Complex 6/2015-7/2015

- Position held: Intern
- Worked in the Mirage Rebuild Factory of Pakistan Aeronautical Complex

The Traveller's Adventure Club 7/2016-8/2017

- Position held: Director/Co-Founder
- Organized and managed various tours and treks to Northern areas including multiple day events

PROJECTS

Deep Green Underwater Renewable Energy Project - Minesto Ltd, UK 3/2018-6/2018

- Design Calculations and Finite Element Analysis for underwater power cable handling equipment
- 3D Model and Manufacturing Drawing preparation for fabrication

Analysis of Marine turbine lifting equipment - Leask Marine, UK 11/2017-12/2017

- Modifications/Additions in current design of lifting equipment for a Marine turbine at sea bed
- Finite element analysis of the equipment on FEMAP

20-ton Spreader Beam Design - Jongbloed Constructie, The Netherlands 12/2017-2/2018

- Design and Strength analysis of the spreader beam
- 3d model of the spreader beam with 2d drafts of fabrication

Filament Winding Machine for carbon composites - Bachelors Final Year Project 7/2016-6/2017

- Design & manufacturing of a winding machine for creating round parts of carbon fibre
- https://www.researchgate.net/publication/319502463_DESIGN_AND_FABRICATION_OF_A_COMPOSITE_FILAMENT_WINDING_MACHINE_A_final_year_project_report

Prill Bucket Cover Design - ENGRO Fertilizers Ltd. 6/2016-7/2016

- Conducted on-site inspection in the prilling tower of Urea plant
- Design and 3D modelling on Solidworks

VOLUNTEER WORK

Career Counselling in High Schools – Islamabad, Pakistan 10/2016-11/2016

Basic First Aid Training in Primary Schools – Islamabad, Pakistan 9/2016-10/2016

IMechE NUST Student Chapter (Director Admin) 10/2015-5/2016

COMPUTER AND SOFTWARE SKILLS

- Autodesk Inventor
- FEMAP
- MATLAB
- MS Word/Powerpoint/Excel
- Solid Edge
- Solidworks

INTRESTS & ACHIEVEMENTS

National Physics Talent Contest: Selected in top 15 students from Pakistan 9/2012-3/2013

- Automobiles, Formula 1
- Psychology
- Football, Tennis
- Travelling and trekking

CERTIFICATE COURSES

Introduction to Psychology - University of Toronto offered by Coursera 11/2017-01/2018

Certificate link: <https://www.coursera.org/account/accomplishments/certificate/2M2RMCKM6YT2>

From the Big Bang to Dark Energy - The University of Tokyo offered by Coursera 11/2017-11/2017

Certificate link: <https://www.coursera.org/account/accomplishments/certificate/ZM3MYNKMGSKF>

Speak Out! (Public Speaking Course) – Youth Club, Islamabad 07/2018-07/2018