

Balaj Fazal

BEng Graduate

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Curriculum Vitae

D.O.B. 17th of November 1993, Muscat, Sultanate of Oman

Personal Statement

Using engineering principles for finding solutions to problems and aiming for better and better, accordingly is my goal.

Education

09/2012 – 09/2016 German University of Technology in Oman (affiliated with RWTH Aachen University, Germany) – **BEng (Hons) Mechanical Engineering**, cGPA=3.12/4.00

08/2010 – 06/2012 Pakistan School Muscat – **High Secondary School Certificate, Ranked 1st at District and State level**

1997 – 06/2010 Pakistan School Muscat – **Secondary School Certificate**

Dissertation

03/2016 – 07/2016 **BEng Thesis at German University of Technology in Oman (GUtech)**
“Modeling and Control Of HIV/ AIDS Infection Systems with Reverse Transcriptase Inhibitors Dosages Design via Robust Feedback Controller”
Supervisor: Dr.-Ing. Aydin Azizi, Email: aydin.azizi@gutech.edu.om

Industrial Experience

07/2015 – 09/2015 **Industrial Internship** conducted at UNIVERSITÀ DEGLI STUDI DI BRESCIA, Italy in association with two industries **Drag Flow** and **Cromodora Wheels** as Engineering Intern in Mechanical and Industrial Department (DIMI). I was assigned two projects **Heat treatment of aluminum wheels** and **Cavitation erosion of cast iron**
Supervisor: Ing. Annalisa Pola, Email: annalisa.pola@unibs.it

01/2014 – 02/2015 A member of “**Shell Eco-Marathon Asia**”, a group of 12 students who designed a prototype fuel efficient vehicle, travelled to **Philippines** in February 2015. In which we acquired 5th position and became the only team to qualify from Oman. *Supervisor: Dr.-Ing. Najah Al Mhanna*, Email: najah.almhanna@gutech.edu.om

06/2015 – 07/2015 Participated in famous “**Veolia Summer School**” – studied a specially adapted case study based on environmental services for Veolia about designing tomorrow’s eco-neighborhoods held at **Campus Veolia, Jouy-le-Moutier, France**

Research Experience

08/2016 – 09/2016 Assistant / Intern, Department of Math & Science, (GUtech)

07/2016 – 08/2016 Participated in **ETH Global Summer School, TU Delft, the Netherlands** Engineering for Development (E4D): “Sand: an in(finite) resource?” (Aims to develop an integrated vision to a global challenge of today’s construction industry on how to develop alternative building materials for future cities)

11/2015 – 12/2015 Control and Automation Lab and research at **RWTH Aachen University, Germany** conducted at **Institut für Regelungstechnik**

10/2015 – 11/2015	Laboratory work and research at RWTH Aachen University, Germany conducted at Fraunhofer-Institut für Produktionstechnologie, IPT and at Werkzeugmaschinenlabor WZL der RWTH Aachen
08/2013 – 09/2013	Cultural trip to Aachen, Germany- for an intensive “ German language course ” conducted at RWTH Aachen University Language Center for an Academic Summer School Program
08/2014 – 09/2014	Assistant in Library, German University of Technology in Oman
05/2013 – 11/2013	Working with the team on the project to develop a generator that work with a vertical axis wind mill turbine with a good efficiency and produce a good amount of potential power output
11/2012 – 05/2013	Involved with the team to build a full-functioning vertical wind mill turbine that has enough RPM and torque to rotate a generator/alternator in order to produce electricity. I developed skills in working as a team and understanding technicalities and difficulties to overcome the obstacles.

Honors and Awards

09/2014 – 07/2016	Scholarship candidate, DAAD scholarship awarded for Merit Based Results
08/2013 – 09/2013	DAAD scholarship awarded to visit the RWTH Aachen University in Germany for an academic summer school program
10/2012 – 07/2016	Scholarship candidate, financial grant award, (GUtech)
06/2015– 07/2015	Scholarship awarded to participate in “ Veolia Summer School ”- Campus Veolia Jouy-le-Moutier, France
01/2015 – 01/2016	Academic Excellence Award awarded by “Dr. Hussain Al Salmi-Deputy Rector” For outstanding performance in academic work, campus involvements, community service, research and special projects for the 2015-2016 academic year
03/2016- 07/2016	DAAD scholarship awarded to conduct Bachelor Thesis . Awarded “A-grade” for the dissertation project conducted at GUtech
07/2016- 08/2016	ETH Switzerland Global Scholarship for E4D Summer School by ETH Zurich
10/2012- 09/2016	Ranked among the top students in the bachelor studies of Mechanical Engineering

Research Interests and Additional skills

- Simulation and Analysis, Modeling software’s like Matlab, Solid works 2009 CAD and Scilab
- Interested topics in Engineering: Metallurgy, Environmental Sciences, Tidal power efficiency
- Highly professional and motivated attitude towards my interests and can utilize my skills
- Ability to work independently as well as in team
- A1 level German, fluent English, native language Urdu and Punjabi, basic skills in Arabic
- Holding a driving license in Oman

Professor Recommendation

Dr.-Ing. Aydin Azizi, Lecturer, Department of Engineering, Email: aydin.azizi@gutech.edu.om