

# Zubair Akbar

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## Education

### **The University of Manchester, United Kingdom (2014-2018)**

BEng (Hons) Electrical and Electronics Engineering

Grades: 2:1

- Investigated behaviour of different generations of overcurrent relays under typical intermittent fault conditions in underground power cables. Used omicron test set to test operating times of electromechanical, static and modern numerical relays under pecking fault conditions and prescribed solutions for coordination problem seen on the network because of this.
- Designed an autonomous buggy to race with other buggies. Wrote an algorithm based on PID control and bang-bang control. Used the SOLIDWORKS to design the chassis of the buggy.
- Gained experience in number of practical skills like mechanical fabrication, electronic assembly and testing, CAD and measurement skills.
- Learnt JAVA, C and Assembly language to program microcontroller PIC18F8722.
- Developed basic practical skills to use National Instrument myDAQ, program in LABVIEW and design electronic circuits in MultiSim 2D and 3D environment.
- Gained key skills such as logical thinking, team working, report writing, analytical and presentation skills, programming and high level of numeracy.

### **University of Engineering and Technology, Pakistan (2013-2014)**

- Studied a short course on Project Management, understood basic terminology of project management, methodology and the role of project manager by doing realistic examples.
- Studied a short course on JAVA programming and gained solid basics of object-oriented JAVA programming.

### **Northern Consortium United Kingdom, Pakistan (2012-2013)**

International Foundation in Science and Engineering

Further Mathematics (83%), Mathematics (90%), Physics (89%)

**Overall Grades: 87%**

### **Cadet College Kallar Kahar (2008-2012)**

Higher Secondary School Certificate (2010-2012)

Physics (81%), Chemistry (91%), Mathematics (80%)

**Overall Grades: 83%**

Secondary School Certificate (2008-2010)

Physics (96%), Mathematics (100%), Chemistry (99%)

**Overall Grades: 93%**

## Awards and Scholarships

- Awarded Scholarship in Foundation Year of engineering: 30% Scholarship (NCUK Programme).
- £1000 awarded by NCUK Manchester for distinction in Foundation year of engineering (2014).

- Awarded Academic Excellence Scholarship at Cadet College Kallar Kahar, Pakistan (2010).

## Work Experience

- **‘Internee Engineer’, China National Logging Corporation, Pakistan (June-July 2017)**

Took Q.H.S.E (Quality, health, safety, environment) training. Learned handling of surface well testing equipment (steam exchanger, separator, surge tank, transfer pump)

Enjoyed working with the professional staff and met with very inspirational people. The outcomes of this experience were corporate management skills, technical knowledge and reducing human error. In this work, I had to adapt and grasp new concepts quickly.

- **Sales Assistant, Aldo, intu Trafford Centre Manchester (November 2014 to September 2018)**

Welcomed and assisted customers, handled orders, updated the inventory, received and stocked merchandise.

Working in a busy street retail store enabled me to develop excellent customer service skills and allowed me to coordinate and communicate well with colleagues to work efficiently and accurately to make sure that sales targets were met.

## Volunteer Work:

- **Worked as Private Tutor, Lahore, Pakistan (June 2014 to August 2014)**

Worked with four O-level students to help them develop good problem-solving skills in mathematics and physics. Provided them innovative and well-differentiated notes which helped them in understanding basic numerical problems.

- **Worked as Mess Secretary, Cadet College Kallar Kahar, Pakistan (September 2010 to December 2010)**

Maintained discipline inside the mess, worked on developing a hygienic food menu and arranged farewells and parties.

Strengthened organizational abilities and management skills by arranging parties and farewell dinner in college. Working with other member of staff helped me to improve my team working skills.

## Interests and Skills

I enjoy a range of sports (cricket, football, table tennis, and badminton) which require a high level of dedication and motivation.

- An active member of the Pakistan Society Manchester cricket club at University of Manchester and represent them at the society level. Also a member of MSJ Stallions cricket club and play Amateur Manchester League matches.
- A committed member of IET and EEE society at the University of Manchester.

## Referees:

- Prof Peter Crossley, School of Electrical and Electronics Engineering, Ferranti Building B7, Manchester, M13 9PL, [peter.crossley@manchester.ac.uk](mailto:peter.crossley@manchester.ac.uk).
- Dr Geoff Baines, School of Electrical and Electronics Engineering, Sackville Street Building B21B, Manchester, M13 9PL, [g.baines@manchester.ac.uk](mailto:g.baines@manchester.ac.uk).