Ahmad Shahzad

F-4, Saltash Hall, Brunel University London, UB8 3PH

Mobile : 07480760120 Email : amdshahzad@gmail.com

Summary

IT and Technical Skills:

- Adept at using software such as MATLAB, MPLAB IDE, Quartus II, Microsoft Office, Code::Blocks and Visual Studio.
- Experienced in HTML, CSS, JavaScript, SQL and C++.

Project Management:

- Learnt different project management techniques and skills whilst working on the Brunel READY Programme for Employability Skills Development.

Teamwork and Communication:

- Has experienced working as part of a team and communication with people of diverse backgrounds due to participation in different technical group projects at university level.

Education

Sept 2017- current BEng Computer Systems Engineering Brunel University London

- Currently completed first year of the four-year course.

March 2017 AISSCE by CBSE (Class 12th Exams) Bloom Public School, New Delhi

- Science stream: Physics, Chemistry, Mathematics, English and Computer Science.
- Overall percentage achieved: 85.60%

March 2015 AISSE by CBSE (Class 10th Exams) Bloom Public School, New Delhi

- Subjects: Mathematics, Science, Social Science, English, French.
- Overall result: 10 CGPA

Summer School Attended

June 2016 Broadening Horizons Oxford Royale Academy

- Received scholarship to attend the summer programme titled 'Broadening Horizons' held by Oxford Royale Academy, Oxford, United Kingdom.
- Completed courses on the following subjects: mathematics, physics, and academic writing.
- Received the Attainment Award for the Mathematics course.
- Introduced to creative ways of learning subjects through practical experiments, presentations and activities.
- The two-week course provided an enriching experience to interact with students from various parts of the globe.

Brunel READY Programme (2017)

- The programme was a 10-week long employability skills development course which focused on UNHCR's (United Nations High Commission for Refugees) work in a refugee settlement in Zambia.
- The aim of the course was to create a product that would help ease the lives of refugees.
- The product designed by my group was a viable compost toilet model that would help improve sanitation in refugee settlements as well as provide compost for agricultural purposes.

Technical Group Projects

- **Dec 2017 Multi-Disciplinary Project Brunel University London**

Project Aim: To build and program a robot that can write a legible word on a piece of paper not fixed to the ground.

- Worked as part of a team of seven engineering students from different streams (Computer Systems, Civil, Mechanical and Electrical Engineering)
- Conducted research and came up with the idea for the final design of the robot.
- Implemented the design with the help of team members by assigning specific tasks to each member for greater efficiency.
- Led the programming process for the robot and monitored its development.
- During the project demonstration, the robot wrote the word "HILL" on an A-4 size sheet of paper in the fastest time and successfully completed the challenge.

- **April 2018 PIC Project Brunel University London**

Project Aim: To develop a home security system using the PIC16F877 microcontroller that is coded in assembly language using the MPLAB IDE software.

- Worked as a part of a team of five computer systems engineering students.
- The home alarm system we developed can be used to activate or deactivate different trigger zones inside a house. It is also password protected so that only the authorised user can utilize it. Whenever the user activates a zone and it gets triggered, the alarm rings thereby alerting the user to any unauthorised access inside the house**.**
- My contribution to the group was mainly in developing the password system for the device. I was also involved in other aspects of the code, such as integrating the LCD (used for the display) and the keypad (used for input) with the PIC microcontroller.

Web Development Project (2018)

- The aim of this individual project was to build a responsive pizza-ordering website that exhibits effective interaction and usability.
- The website was largely hand coded using HTML5, CSS3, JavaScript and jQuery. CSS3 media queries were utilised to make the website responsive in mobiles and tablets, apart from computers.
- The website allows the user to order pizzas and other dishes, giving them the option to customise their pizzas as well as create their own pizza from scratch.
- Website link: http://ywpmpizza.bitballoon.com/

Achievements

- Participated in **Aptis for Teens Inter-School Challenge 2015,** conducted by **British Council.**
- Participated in the **City Finals of Times NIE Think and Learn Challenge, 2014-2015.**
- Received a **Special Mention Award** at the **Hindu Policy Summit, 2014,** as a recognition of excellence in research, analytical and debating skills.
- Participated in the **Second Annual Model United Nations Conference** in India hosted by **Georgetown University School of Foreign Service, Qatar,2014.**
- Participation in **National Science Olympiad (NSO)**
  - Attained **School Rank-3** in Grade 10**, NSO 2014**.
  - Attained **School Rank-2** in Grade 9**, NSO 2013**.
- Received **Certificate of Appreciation** at the **2nd International Life Skills, Values, Gender, School Health and Wellbeing Regional Summit** organized by **Central Board of Secondary Education(CBSE), 2013.**

Positions of Responsibility

2014-2015 Member of Student Council Bloom Public School

- Held post of Prefect of Red House. Organised school events and held meetings to discuss important student issues.

Interests

- Active member of BRES (Brunel Robotics Engineering Society). Regularly attend weekly sessions which involves work on different projects such as Arduino programmed robots, drones, etc.
- Football enthusiast. I was the captain of the football team in high school, which helped me develop skills such as leadership and team work.