Ahsan Nawazish

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Undergraduate electrical and electronic engineer. Passionate about science, with strong technical, business, and interpersonal skills for working in a team and successfully completing a project.

Education

Academic Qualifications

- **John Hopkins University** — **Online Course/Coursera**
  Data Science Specialisation — *2016–Ongoing*
- **Univeristy of Bradford** — **Bradford/United Kingdom**
  Beng (Hons) Electrical and Electronic Engineering , 2:1 — *2012–2015*
- **Al-Majd International School** — **Al-Khobar/Saudi Arabia**
  A-levels — *2010–2012*
- **Al-Majd International School** — **Al-Khobar/Saudi Arabia**
  O-levels — *2008–2010*

Notable Projects

- **Intelligent Distress System:** *'Development of an Intelligent distress system for auto-mobiles'*
  During my university final year, I designed a system for automobiles to send off a distress signal through smart phones in case of accident or an engine failure. This system was designed using Arduino UNO along with OBD-2 port to read data.It also had the capability to read and log location as well as weather data readings. A working prototype was developed and its successful presentation was highly commended.
- **Indoor Temperature Meter** *'Arduino based system to read temperature and display Temperature Trends'*
  Using arduino UNO I developed a meter to read and log the room temperature. It displays logged temperature for last 24 hour period in a graph form and display last hour temperature in display. The graphical presentation method was praised by the tutors for being unique and simple
- **TEA Encryption:** *'Designing an encryption/decryption algorithm known as TEA algorithm'*
  The algorithm was designed using VHDL and its functions designed individually into modules. These functions which were then encrypted /decrypted using algorithm cycle.
- **Leak Detection System** *'Developing a leakage detection system to detect the leakage of waste water in pipelines'*
  During my second year, Our raspberry-pi club received a project from a waste water company to design a system to assure there is no leakage in the waste water pipelines. Using raspberry-Pi controller, a system was developed to calculate loss of the water pressure through the pipeline using differential pressure transducer.
- **Stand-Alone timer** *'Designing circuit board and Programming PIC Project'*
  In this project I used PIC micro-controller, with a display of current time , buttons to set timer and a buzzer to indicate when timer ends.This timer has its application in central heating systems or ovens.
- **Chopper Controlled DC motor** *'Designing a circuit to control the speed of a DC motor'*

Technical and Personal skills

- **Programming Languages:** Proficient in: R, C, C++, TeX , VHDL
- **Industry Software Skills:** Matlab , Python, Flowcode, Proteus, Altera, Pspice, MS Office Suite, Rstudio
- **Micro-controllers:** Experience in working with PIC, Raspberry Pi and Arduino
- **Operating Systems:** Windows, Mac OSX, Linux [Debian Based]
- **General Skills:** Objective oriented, Technical presentation, Technical reports, Group Projects, Time Management

Previous Employment

- **ITT Gould Pumps** **Dammam/Saudi Arabia**
  Internee *June to July 2013*

  My time at the leading manufacturer of pumps was spent working under different departments to increase my knowledge span and to get a better understanding of how the industry works. Working side by side with the Engineering and Contracts department, I learned a lot about how the pumps work and how each department works together to reach the expectations of customers.Whilst working in the Contracts Department, my main job was to keep the files of the on-going projects up to date which allowed me to observe closely to how to maintain customer relations.

- **Quite Cool Trading Company** **Al-Khobar/Saudi Arabia**
  Assistant Manager *June to August 2012*

  My focus was to explore vendors with competitive prices in order to increase our margin on sales. Besides procurement I also handled customer enquiries with great care to satisfy their requirement and to promote Quite Cool's image. Also I was responsible to maintain minimum stock levels using customized software developed to handle inventory.

Interests and extra-curricular activity

- Avid reader of technology magazine, I also enjoy my free time enhancing my skills, practice making circuits and programming micro-controllers for DIY projects.
- Proud holder of Black belt in Taekwondo (World Taekwondo Federation) and have won gold medal in A-Khobar open Taekwondo Tournament.I am also the captain of a soccer team which regularly participates in local leagues, Other interest include guitar, which I am self-taught.

References

- **Dr Haile-Selassie Rajamani**
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- **Dr Steve Jones**
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