



Shahyan Pervez Bharucha

Date of birth : 30 September 1991

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Profile

Objective I am an assiduous and innovative engineer who is passionate about technology, having an explicit knowledge and experience of problem solving, industrial automation design and rectification.

Key Skills

Proficient with a vast array of programming languages, concepts and technologies, including:			
Siemens Step 7 3d Modeling, CAD Matlab	Ladder Logic Arduino Industrial Automation	Image Processing Proteus Java, C/C++	Html, CSS, JavaScript Microcontrollers(Atmel) Visual Basic, Visual C#

Education

- | | |
|---------------------|---|
| 2010 to 2013 | Bachelor in Electronic Engineering- NED University of Engineering and Technology
University Road, Karachi-75270 |
| 2007 to 2009 | Intermediate in Pre-Engineering- Saint Patrick's college for men and women
Ahmed Munir S.J. Shaheed Road, Karachi-74400 |
| 1996 to 2007 | Matriculate in Computer Science- BVS Parsi High school
Abdullah Haroon Road, Karachi-74400 |

Work Experience

PepsiCo bottling factory - Pakistan Beverage Limited (Licensed Bottlers of PepsiCo.)

Near Habib Chowrangi S.I.T.E Karachi. UAN: 111-787-489

Instrumentation and Controls Engineer

01 Jan, 2016 to Up to date

- Represented the electronics department in installation and commissioning of new beverage line of Krones (Germany). Working with the Germans Krones engineers assisting them in their daily electronic and instrumentation installation and commissioning activities and providing them support regarding their requirement of spares. Moreover, making daily report on the activity carried out during the entire installation and commissioning period.
- Being an active member during the upgrading of the Centrifil (Italy) canning line in the plant working with the Italian engineers.
- Working and reporting under the direct supervision of group manager electronics.
- Working with the latest industrial technology and standards. Gained knowledge and experience by working on Krones latest PET lines and Centrifill canning line and have good understanding regarding ASI, Siemens Simatic PLC, HMI's, B&R PLC(X20), B&R Automation PC, Servodrives (B&R Acopos), various types of industrial sensors (Leuze, Peprl+FUCHS & OMRON) & Performing rectifications in faulty machines during production.
- Utilizing SAP Hana Pro for the daily inventory management tasks.

Aquafina Factory - Pakistan Beverage Limited (Licensed Bottlers of PepsiCo.) (Transferred to CSD factory)

Near Tool Plaza Super Highway Karachi. UAN: 111-787-489

Instrumentation and Controls Engineer

01 Jan, 2015 to 31 Dec, 2015

- Gained knowledge and experience working on Sidel PET bottling line, Techlong bulk bottle filling line and ICE & Aquamatch water treatment plants and performing rectifications in faulty machines during production.
- Acquired experience working with Siemens Simatic Plc's (S7-200,300,400,1200), Siemens HMI's and other industrial control and instrumentation equipments.
- Rectifying control systems by analyzing ladder logic using PG on Simatic Step7 software.
- Making maintenance plans and doing machine maintenance according to it.
- Checking the availability of spares in store and ordering spare according to it using SAP ERP.
- Documenting daily engineering activities done by the electronics department.

Jubilee General Insurance Company Limited

2nd Floor Jubilee Insurance House, I.I Chundrighar Road Karachi – UAN.: 111 654 111

Deputy Manager-Risk Management & Engineering

01 Feb, 2014 to 31 Dec, 2014

- Surveying factories belonging to various industries to analyze risk involved in their operations.
- Preparing detailed risk analyses report and putting forward recommendations to client for improvement.
- Planning weekly survey activities with the department.
- Prepared reports are also used as references during underwriting.

Schneider Electric Pakistan (Private) Limited

D-163 S.I.T.E, G.P.O. Box 474, Karachi-75700- Pakistan. Tel.: +92 21 32576005-9

Intern

11 June to 29 June, 2012

- Gained understanding of departmental procedures, functions and assisted departmental staff in routine activities on rotation in various Manufacturing departments including QEHS, Testing & Inspection and Retrofit.

Selected Projects, Publications and Courses**Programmable Logic Controller**

- Five day course held at NED University of Engineering and Technology CCEE from 13 to 21 December, 2016.
- New programming and automation concepts were learned during the training.

Real Time Finger Counting and Virtual Drawing Using Color Detection and Shape Recognition

- A research included testing the algorithm on various conditions and notifying results.
- The algorithm and program is created using matlab Image processing toolbox.
- The research paper was published in ICICT 2013 conference (IEEE) held at IBA Karachi on 14-15 December.
- The research paper was also presented by me in the ICICT conference.
- <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6732776>

In Built Stress Analysis Using Mobile Operating System

- A technical paper which provided theoretical Idea on using different algorithmic methods in the basic operating system for stress analysis of a user.
- The technical paper got selected for 29th IEEE Multi Topic Symposium which held on March 26 & 27, 2014.
- The technical paper was also presented by me in 29th IEEE Multi Topic Symposium.

Real Time Interaction Using AR CUDA

- Final year project included the interaction of augmented reality with GPU's using CUDA library.
- Used AR (Augmented Reality) Tool Kit to create applications related to education and business.
- Worked on different modeling software's like Google sketchup and blender and also worked on VRML models. Completed all the deliverable tasks provided in the FYP proposal.

Humi Panel

- An artificial Intelligence based panel which uses image processing (gesture recognition) for controlling robotic arm and smart applications, voice recognition for controlling appliances.
- Created its GUI using Visual C# and Visual Basic.
- Used XBOX Kinect as the image accusation device and connected it with a dell latitude D630 laptop.
- Used serial communication between the Pc, appliances and robotic arm using ATMEGA-16 USART port.
- Exhibited it in Project exhibitions and competitions, SENTEC and ITEC held at NED University of engineering and Technology

Activities, Interests & Achievements

- Have created a personal website www.shahyanbharucha.com using html, CSS and JavaScript.
- Creating 3d CAD designs using FreeCad and Autodesk inventor.
- Making 3d printer projects in my spare time.
- Reading research work in the field of computer science and technology.
- Playing sports such as snooker, badminton and swimming in my leisure time.