Maham Tanveer
Date of Birth: 2nd May, 1990 (Sargodha, Pakistan)
Nationality: Pakistani

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Maham Tanveer

Experience Nov 2011 – June 2015	**Advanced Engineering & Research Organization (AERO), NESCOM, Pakistan**　　　　　　　　　　　　　　　　　　　　　　　　Attock Position: Assistant Manager Electronics

- Main Field: **Software Development for Embedded Systems (Development and Testing of GUI's) and Testing and Development of Avionics systems**
- Tasks and objectives:
  - Learnt the basics of National Instruments (NI) Lab Windows CVI 2000 software for creating graphical user interfaces for real-time systems.
  - Designed, developed, integrated, and tested application software and GUI for the Continuity and Insulation Resistance Test Bench of electrical cables using C++ and National Instruments Lab Windows CVI 2000.
  - Participated in aircraft trials of Telemetry system for wireless communication (RS232 and RS422 protocol) and designed, developed and tested its application software and its GUI using C++ and National Instruments Lab Windows CVI 2000.
  - Worked as part of a team to develop Engine data testing system measuring pressure, temperature and various electrical discrete signals from engine and developed its desktop application.
  - Understanding of Testing, Development, Production and Qualification phases of various avionics systems.
  - Quality in-charge officer in department for implementation of quality policies of organization as per various military and industrial standards (MIL-STD-704, MIL-STD-801, MIL-STD-461, ISO 9001).
  - Organizer of various technical conferences held at AERO.

Internship July 2010– Sep2010	**Kamra Avionics & Radar Factory**　　　　　　　　　　　　Attock Internee

- Learnt the basic concepts networking protocols (RS422 and RS232)
- Observed various avionics systems and their simulation software's.
- Observed production cycle of avionics systems from PCB stuffing till complete system testing and qualification.

Education Aug 2007 – Present	2015 – Present　　　Universitat Hamburg　　　　　　　　Hamburg

- Masters in Intelligent Adaptive Systems

International Islamic University　　　　　　　　　　　　Islamabad

- B.Sc. in Electronics and Telecommunications Engineering
- CGPA 3.07

2005 – 2007	Fazaia Degree College MRF Kamra	Attock

- F.Sc. (Pre-engineering / High school)
- B grade, 1st Division

2003 – 2005	Fazaia Degree College MRF Kamra	Attock

- Matric (Science)

A1 grade, 1st Division

B.Sc Final Year Project

Final year project titled "**ADEPTED SYNTRAX**". Marble is a stone processed in Pakistan and marble mosaics are created on floors and walls for decorative purposes. Our project aimed to create marble mosaics using robotics inspired mobile machine, saving labor cost and bringing automation to the system. The machine had a movable tray made of compartments in which black and white marble pieces were placed. An image of basic marble mosaic design was selected, converted to black and white, positioning of marble pieces was determined and sent to the machine serially using COM Port. This data was then read by the microcontroller card on machine, and sequence of selection & placement of marble pieces was sent to its robotic arm, that employed suction-syringe methodology to create marble mosaics. My supervisor was Assistant Professor Khurram Hussain and I was awarded **"A"** grade.

B.Sc Projects

- Implementation of real-time clock using AT89C51 microcontroller timers and LCD using Proteus and Kiel.
- Analog to digital Power Transfer system.
- Understanding of applications of microcontrollers like AT89C51 and PIC18.
- Line following robot, Remote controlled fighting robot and fully autonomous robot for path identification, placement of wooden pegs at their pigeon holes, successful maneuvering of ramps/raised surfaces and returning to its original location.

Technical Skills

Microsoft Office with Ms Visio , Ms Project, Matlab 7.0 and 6.5, AutoCAD 2002, Micro-controller programming in Kiel software, Protel 99SE and Proteus, NI Lab Windows 2000, Adobe Photoshop CS, XAMARIN, Eclipse.
Recently studied Spyder for Image processing and Eclipse for subject Databases (semester projects)
Programming languages: Adept in C++ as I developed using C++ during my previous job, basic understanding of python and java due to current masters.

Personal Skills

- Hands on experience in production environment
- Very good communication & presentation skills
- Hardworking, analytical and creative
- Lively and fun loving person, love tourism and travelling
- Easy to work with-in a team
- Commitment to continued learning and training.
- Language Skills: German: A1.2 completed. English: Fluent

Achievements

- Took part in prestigious national level competition for Robotics, NERC held at National University of Science and Technology (NUST) and got the award.
- Designed and developed a basic fighting robot and participated in "RoboWars" competitions held at Lahore University of Management Sciences, Pakistan and at National University of Computer Sciences (FAST), Islamabad and got the certificate.
- Participated and organized International Bhurban Conference on Applied Sciences & Technology held at National Engineering & Scientific Commission (NESCOM), Islamabad and got certificate of commendation.

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