

AMNA JAVAID(Electrical Engineer)

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OBJECTIVE:

To use my talents and technical skills in a competitive and challenging academic environment, requiring an inspirational and resourceful approach, where there is room for growth and success.

PERSONAL INFORMATION:

Date of birth:

27th August, 1986

Nationality:

Pakistani

EDUCATION:

Bachelors in Electrical Engineering

National University of Sciences and Technology (NUST), Pakistan

(2004-2008)

Cumulative GPA: 3.12/4.0

Higher Secondary School Certificate

Saudi Arabian International School, K.S.A

(2002-2004)

Marks: 944/1100 (86%)

Secondary School Certificate

Saudi Arabian International School, K.S.A

(2000-2002)

Marks: 764/850 (90%)

WORK EXPERIENCE:

Systems Reliability Commerce & Contracting Company, SRCC

January 2009- July 2009

Worked as a Design Electrical Engineer in SRCC. The scope of my job included working on different projects for local as well as international clients. I was responsible for designing commercial and industrial building layouts in AutoCAD, making shop drawings and calculating

material requirements.

Arabian Consulting and Engineering Center, K.S.A

July 2008-November 2008

Worked as an Electrical Engineer on different projects of **Saudi Aramco** and **Al Khajfi Joint Operations**. I was responsible for performing electrical engineering assignments and production of construction documents. Prepared design packages for electrical equipment, communication, fire protection / alarm. Developed calculations and lighting designs for commercial and residential.

AutoCAD Training Course

November, 2008

Successfully completed the three weeks AutoCAD Training course offered by King Fahd University of Petroleum and Minerals.

Coventry University, U.K

July 2007- August 2007

Did a summer placement at the Graduate and CPD Centre. There, I worked on Telegesis ETRX2 modules which are a low power, 2.4GHz ISM band transceivers, based on the Ember EM250 single chip ZigBee / IEEE 802.15.4 solution. ZigBee is a wireless technology developed as an open global standard to address the unique needs of low-cost, low-power, wireless sensor networks.

AWARDS AND ACHIEVEMENTS:

- Secured 1st position among all overseas students in the Intermediate exam (12th grade)
- Holder of Merit Scholarship, Federal Board of Education, Pakistan 2002-2008
- Holder of Outstanding Student Scholarship, Pakistan 2004-2008
- Presented the final year project “ Design and Implementation of a Prototype Defibrillator” in the **5th International Conference on Cardiology, Islamabad, April 2008**
- Attended the **Saudi Water and Power Forum** as a company delegate, **Jeddah, November 2008**
- Participated in a National level competition aimed at developing a **Corporate Social Responsibility** proposal for a leading corporate firm in Pakistan.

SEMESTER PROJECTS:

- **Arithmetic and Logic Unit**
Implemented logic functions for an Arithmetic and Logic Unit using Programmable Array Logics.
- **Fingerprint Recognition System**
Designed and implemented a Fingerprint Recognition System using microcontroller 8051. It compares the test fingerprint sample with the stored templates from the fingerprint database and shows the result of matching or non matching.
- **Bee-Inspired Multimedia Streaming in Peer-to-Peer Network**

Designed a decentralized, hierarchical protocol in OMNeT++, inspired from the bee agent routing model, for live media streaming across the Internet.

- **Infrared Transceiver**
Hardware implementation of an IR Transceiver using different ICs.
- **Uninterruptible Power Supply**
Designed and implemented on a printed circuit board (PCB) an Uninterruptible Power Supply.
- **FM Transmitter**
Designed and implemented an FM transmitter that was capable of transmitting audio signals at radio frequencies.
- **Distributed Database System**
Implemented a database system for a flight inquiry system in MySQL and did data streaming between two computers.
- **Designing of a Patch Antenna**
Designed a 1x4 patch Antenna using HFSS software.
- **Linear Predictive Coding**
Developed a code for LPC in Matlab.
- **Low Pass Filtering of an Audio Signal**
Implemented a code for low pass filtering of an audio signal using Fast Fourier Transform in Matlab.
- **Implantable Cardioverter Defibrillator (ICD)**
Worked on developing algorithms for an implantable cardiac device that differentiates between different types of fatal heart rhythms using techniques like Fourier Transform and Wavelet Analysis. The algorithms were then tested using the Digital Signal Processing Kit, DSPK 6017.

MAJOR COURSES:

AutoCAD, Communication skills, Control Systems, Signals and Systems, Digital Signal Processing, Computer Networks, Digital Logic Design, Electric Circuits, Microcontrollers, Computer Networks, Communication Systems, Wireless Communications.

TECHNICAL SKILLS:

- Languages: Visual C++, Assembly, C#
- Applications: DIALux for lights , MS Visual Studio, AutoCAD ,Matlab, Latex, OMNeT++, Orcad, PSPICE, MAX+PLUS II
- Operating Systems: Windows , Linux

INTERPERSONAL SKILLS:

- Excellent organizational skills & problem solving ability
- Good command on English language(oral and written)
- Excellent interpersonal skills and ability to hold credible relationships at senior management levels

- Able to make excellent decisions requiring analytical, interpretative, evaluative and constructive thinking.

EXTRA-CURRICULAR ACTIVITIES:

- Remained an active member of SPAL (Society for the Promotion of Arts and Literature) in University.
- Organized different social and cultural events at college and university level.
- Participated in LUMUN (LUMS Model United Nations) in 2005 held in Pakistan.
- Organized and participated in various interuniversity badminton and squash tournaments.

REFERENCE:

On request