Curriculum Vitae

Personal Information:

Name: Ishtiaq Ahmad Father Name: Abdul Razzaq Date of Birth: 5th sep, 1986 Marital Status: Single	Address: House # 1003/10, Street # 10, T&T Colony Housing Society, Haripur Hazara. Phone Number: +923122909944 Email: itsishtiaq.a@gmail.com

Objectives:

To purse my career in a competitive environment where I can apply my knowledge to best of my abilities. I am confident, enthusiastic and energetic person with the ability to learn and adapt quickly to changing circumstances.

Qualification:

Last Degree	Bachelor of Computer Engineering
Name of University	Bahria University, Islamabad
Specialization	Computer Engineering
Year of Passing	2011

Degree Objectives:

During my Bachelor degree I studied courses ranging from analogue to digital design and embedded systems. A series of programming modules also were taught alongside the electronic courses. MatLab, C++, Visual Basic and Python are examples of such modules.

Engineering Skills:

Skill	First	Second
Hardware Engineering	AVR Studio/MikroC/Code Vision Keil/MPlab	**Altium(For RF PCB Designing)** Proteus/Zuken
Programming Languages	Visual Basic /C++/Embedded C **Python**	Assembly language
Microcontrollers	**ARM processer(STM32)** ArduinoUNO Atmega & ATTINY Series	AT89C51,AT89C51ED2 PIC18F4550
Operating Systems	Windows 7/XP/Ubuntu	Vista/ Server 2003

Final Project:

Name: USB based PIC micro Development Kit

This development kit provides the hardware and software tools that engineer need to develop and to prototype the embedded application. A number of hardware protocols and components present inclusive of serial and I2C DAC, ADC, LEDs, SSDs, Serial port, LCD, EEPROM, switches, temperature sensors, buzzer, I2C, SPI interfacing, relays and input/output pins. This board is connected to computer through USB and easily programmed through firmware programmed in PIC18F4550 microcontroller.

Experience:

Working in NRTC (National Radio Telecommunication Corporation) from September 2011 to Present Date as R&D Engineer in Research and Development (R&D) Lab. National Radio Telecommunication Corporation the high tech industry engaged in manufacturing of telecommunication equipment in Pakistan. NRTC is the pioneer in Telecommunication Equipment in Pakistan and leader in the field of communication for the last three decades. NRTC is producing high quality ruggedized products to be used in harsh environment such as defense services, Para / Auxiliary security services. Commercial products and versions for use by civil Telecommunications operators and civil organizations / establishments since 1966.

Projects in NRTC:

Name: ARM processer Based DDS (Direct Digital Synthesizer) with AD9914 and AD9858.
This project is started to increase the sweep rate of synthesizers that we have used as per company demand. Through ARM Processer (STM32) the DDS (AD9858) is programmed digitally, for the desired sweep and spot frequencies. A touch panel LCD is also programmed through Arm Processer to give the user a better interface of the module. **(Project Continues)**
Name: Arduino Based VHF and UHF Frequency Synthesizer.
This Project is the up gradation of the UHF Frequency Synthesizer Project using Arduino Architecture. The Hardware and software portion is totally changed, instead of 8051, Arduino with Atmel AVR series has been used and the Band has been extended, So from the single module both UHF and VHF band has to be synthesize.(**Project Completed successfully)**
Name: UHF Frequency Synthesizer (250MHz - 450MHz).
In Frequency Synthesizer project I have programmed PLL (ADF4116) via microcontroller (AT89C51ED2) to generate a band of frequencies (250MHz-450MHz) and also give LCD and Keypad Interface for it, so user can synthesize his desired frequency. Hardware protocols and components like Serial port, LCD, EEPROM, keypad, I2C, SPI interfacing has been used. **(Project Completed successfully)**
Name: Text Data Communication in PRC-77.
In this Project the connection between PRC-77(VHF Radio) and PC through serial port using P8501 multimode modem has been made. This provides data over radio baud rates from 1200 to 14400 bits per second, using FFSK or GMSK modulation depending on the selected baud rate and operating mode. Also develop software application in Visual Basic as per requirement of the project.**(Project Completed successfully)**

References:

To be furnished upon request.