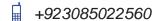
PERSONAL INFORMATION

Muhammad Bilal Malik

House # 25 street # 5, Shams Colony Golra Morh H13, Islamabad, Pakistan



Email: bilalmalik12341 @gmail.com

Sex Male | Date of Birth 28/10/1996 | Nationality Pakistani



ACADEMIC BACKGROUNG			
Degree	Institute	Duration	Marks/GPA
Bachelor of Electrical Engineering (Electronics)	Air University	2014-2018	3.11/4
Fsc. Pre-Engineering	Fazaia Degree Science College MRF Kamra	2012-2014	1 st Division
Matriculation	Fazaia Degree Science College MRF Kamra	2010-2012	1 st Division

AREAS OF INTEREST

Embedded Systems, Microcontroller, FPGA and VLSI.

OBJECTIVE

To bring supreme success to the organization I work for through maximum possible value addition, excellent logical aptitude, utilization of my cognitive ability, creative thought process and flair for teamwork. I possess while encompassing new knowledge.

PROGRAMMING AND EMBEDDED SYSTEMS SKILLS

Programming: Assembly, C++, OOP, Python, JAVA, PHP, MATLAB, Verilog /VHDL, PLC Programming and Embedded C.

Embedded Systems: Microcontrollers (AVR, 8051, 8086, PIC), DSP Board programming, Arduino, FPGA, Raspberry Pi, SPI, I2C, RS232 protocol, Communication between PC and Microcontroller, Sensor Fusions, Signal Processing, DC Motor, Servo Motor and PWM etc.

MAJOR PROJECTS

Greenhouse Automation via IoT (Final Year Project):

Build Fully automated Greenhouse and android app for owner to check the current status. Programmed Raspberry pi for server and ESP8266 controller for monitoring and controlling greenhouse.

Equalizer:

Designed Equalizer which passes multiple low frequency and examine its principle by making low, high and band pass filters and audio amplifier.

Snake Game:

Designed in Verilog HDL, and displayed on Monitor by interfacing VGA port with FPGA.

• Power Factor Measurement:

Measured power factor using PIC microcontroller via CCP technique.

• Buck Boast Converter:

Designed efficient Buck Boast converter with feedback which regulates the voltage.

EXPERIENCE IN TOOLS/SOFTWARE

- Very good knowledge of C++ and Embedded C programming.
- Basic Knowledge of Object Oriented Programming, Java, PHP and Python.
- Very good at design software's like Proteus, Xilinx, Eclipse and Arduino IDE.
- Very good knowledge of AVR, Atmel, PIC, RPi and FPGA microcontrollers programming.
- Internship in Miraaj Rebuild Factory, Pakistan Aeronautical Complex Kamra.
- Three month course on Programmable Logic Controller from Government Institute.

ADDITIONAL INFORMATION

Honors and Awards:

- Second position in Final year project (FYP) exhibition 2018, Air University.
- Honored as best Departmental ambassador in cleanliness campaign in Air University.
- Winner of circuit designing competition at Air-Tech event 2017, Air University.

Extracurricular Activities and Duties:

- Department Ambassador of Sha'oor society in Air University.
- Head of security in department events in Air University.
- Volunteered for many events in different societies and participated in sports activities in Air University.

Leadership:

- Problem solving skills.
- Good communication.
- Analytical thinking.
- Team building and Training.

Hobbies and Interest:

Watching Movies, Playing Cricket, Book Reading and Microcontroller Programming.

REFERENCE

Will be furnished upon demand.