

PERSONAL INFORMATION

Muhammad Bilal Malik

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

📞 +923085022560

✉ Email: bilalmalik12341@gmail.com

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



ACADEMIC BACKGROUND

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 Boost Converter:**

Designed efficient Buck Boost 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.