

MUHAMMAD HAMMAD KHALID

OBJECTIVE Highly motivated and dedicated individual with a degree of bachelor's in electrical engineering from Ghulam Ishaq Khan institute. Have strong knowledge in the field and possess excellent coding skills. Looking for a job as a junior engineer or developer to use my skills in growing your organization and develop a more rounded skillset.

EDUCATION **BS, GIK-INSTITUTE, ELECTRICAL ENGINEERING ELECTRONICS, SWABI, JULY 5TH 2022**
HSSC-I & II, IMCB G-10/4, PRE-ENGINEERING, ISLAMABAD, MAY 2018
SSC-1 & II, IMCB G-10/4, SCIENCES, ISLAMABAD, APRIL 2016

SKILLS

- **Languages:** Python HTML5 CSS3 Bootstrap5 C and C++ Kotlin PHP
- **Software's:** Android Studio Visual Studio Atom MATLAB/SIMULINK LabView Multisim Proteus MP-Lab X IDE Arduino IDE Creo COMSOL Excel MS-Word PowerPoint
- **Microcontrollers:** Raspberry Pi 4b+ PIC18 ESP-8266 Arduino (UNO, MEGA)

FINAL YEAR PROJECT

Designed and developed a smart irrigation system and implement it on a large scale. The system used self-made 3D printed wireless moisture sensors to measure the moisture content of soil and used humidity and temperature sensors for temperature and humidity of air. Displayed the data of the sensors on a self-designed web page using HTML and CSS and saved the data on the cloud. Electronic valves were connected with the main water supply and each valve was controlled by web page to water the specific row in field. Reduced the water loss and improved crop growth.

ACADEMIC PROJECTS

- CNC / 2-D PLOTTER
- Frequency / Pitch detector using MATLAB
- Temperature monitoring door system
- Digital clock
- Mini home automation system using LabVIEW and Arduino
- Constant current source using field effective transistor
- Antenna Design Patch antenna designing using COMSOL software

EXPERIENCE **INTERN AT POWER DISTRIBUTION DEPARTMENT, RAWALPINDI INSTITUTE OF CARDIOLOGY, RAWALPINDI, 28TH JULY 2021 - 1ST SEP 2021**
INTERN AT DIGITAL CUSTODIAN COMPANY, ISLAMABAD, 1ST JULY 2021 – 26TH JULY 2021
EXECUTIVE MEMBER GIKI ROBOTICS SOCIETY TECHNO-BOLT, SWABI, 2019-2022