

M Hamid Khan

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Interests

Power Electronics, Switched-mode Power Supplies, Electric Machines and Drives, Embedded Systems, Electronics, Algorithm development, IoT, PCB Designing, Testing and Characterization

Experience

Jul'18-Aug'18 **Internship**, *Tarbela Power House, WAPDA (Pakistan)*.

- Performed maintenance in operation, Electrical, Protection, SCADA, and High Power Switch Gear sections.

Education

2015–2019 **Bachelor of Electrical Engineering**, *GIK Institute Swabi (Pakistan)*.

- Won fully funded merit-based scholarship for entire undergraduate studies.

2013–2015 **Intermediate (Pre-Engineering)**, *Govt. Degree College Mingora, Swat (Pakistan)*.

- **Result:**85.5%

Final Year Project

2018-2019 **Automatic power factor correction system:**

- Designed an embedded system that continuously monitor and correct power factor to a user-defined value.
- Designing phase measurement circuit, designing power supply, developing algorithm for pf correction, interfacing Modules, PCB designing.

Skills

AVR Micro-controller, SIMATIC S7-200, Arduino, PCB designing, Lt-spice, Labview, MATLAB, Proteus, Power world simulator, Mid, Step7 microwin, PTC Creo, C/C++.

Semester Projects

Fall'18 **Designing transmission system using power world simulator**

- Minimization of investment cost, contingency analysis, short circuit analysis.

Fall'17 **High power density DC to DC Buck converter**

- Design bootstrap circuit , feedback control and user input program, designing high Power Inductor, PCB design.

Spring'17 **Arduino based Auto-leveling Drone**

- Designing flight controller, interfacing IMU (MPU 6050), interfacing BLDC motors and RC transmitter.

Fall'17 **Sound wave Analysis**

- Amplification, filtering, Interfacing with LabView.

Spring'16 **ATM machine Program**

- User data storage, password reset and account block option, Fast cash and custom cash selection.

Relevant Courses

Electric Machine Drives and Control, Power Electronics, Electronic Devices and Circuits, Microprocessor system, Instrumentation, Linear control system, Communication systems, Power System Analysis.