Hassan Jalil

(PEC Registered Engineer)

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Carrier Objective

To gain the ability of analyzing engineering problems, evaluating and recommending alternatives and communicating recommendations. I desire to gain quality experience that will allow me to take full advantage of my degree. In addition, I am eager to contribute my creativity and hard work towards the success of your organization and to the growth of the fast-developing field.

Education

QUALIFICATION	INSTITUTION/BOARD	Year	CGPA/Division
BS Electronic Engineering	International Islamic University, Sector H-10, Islamabad	2014-2018	3.59 / 4
HSSC (Pre-engineering)	Board of Intermediate and Secondary Education (BISE) Sahiwal	2012-2014	1st division
SSC	Board of Intermediate and Secondary Education (BISE) Multan	2010-2012	1st division

Semester Projects

- Switch Mode Power Supply of 220VAC to 24VDC, 12VDC @ 1A using PWM IC UC3843.
- Linear Power Supply of 220VAC to 12VDC, 5VDC, variable 5-12VDC using linear regulators.
- Keyboard (PS2) interfacing using FPGA.
- Automatic room light control using 8051 and IR sensor.
- Room temperature controller using AVR ATmega32 and LM35 sensor.
- Automatic door opening system using Arduino UNO, Ultrasonic sensor and Servo motor.
- Remote Terminal Unit (RTU) design using PIC16F877A.
- Serial Communication between PC and PIC16F877A using LabVIEW.
- Digital Watch Using Flowcode and PIC16F877A.
- GUI based image processing using MATLAB.
- PLC based Elevator control using STEP7 MicroWin, STEP7 Simulator and PC SIMU
- PLC and SCADA based double sided traffic signal control
- Designing of PLC S7-200 Trainer

Final Year Project

Online Pure Sine Wave High frequency UPS with Power Factor correction

Main modules of the project:

- Power Factor Corrector (makes non-linear sinusoidal current to linear)
- Pure Sine Wave Inverter (with less than 5% distortion on full load)
- 12VDC Battery to 330VDC Push Pull converter
- Battery Charger
- 12VDC battery to four isolated 12VDC and 5VDC supplies @ 1A.

Software tools: mikroC PRO for PIC, OrCAD Capture, Proteus Professional

Professional skills

Flowcode	AVR Studio	Keil C51
mikroC PRO for PIC	Proteus Professional	ModelSim
Xilinx	LabVIEW	OrCAD
LTSpice	MATLAB	Arduino
Python Shell and IDLE	Wing IDE 101 for Python	Silvaco TCAD
Mentor Graphics	Step7 MicroWin	Step7 Simulator
PC Simu	WinTr	MODBUS
xArrow	KEPServerEX5	Raspberry Pi

Area of Interest

- Analog, Digital and power electronics
- Design Embedded system
- Microcontroller and its applications
- Industrial automation using PLC and SCADA
- Programming (C, C++, Verilog HDL, Python, LADDER)
- Internet of Things (IoT)

Awards and Achievements

- Fully funded PM's National ICT Scholarship holder for BS Electronic Engineering degree.
- Final Year Project was fully funded by Ignite National Technology Fund.
- Scholarship winner from University of California, Irvine for 6 months specialization in IoT having 6 online courses at Coursera.
- 32 hours professional training on **PLC and SCADA** from SINA Institute, Islamabad.
- 48 hours professional training on **Electronic System Design** from SINA Institute, Islamabad.

Internship

- 3.5 months internship at Power Electronics Lab at National Institute of Electronics, Islamabad.
- 6 weeks internship in Embedded System Design using Flowcode and LabVIEW at National Electronics Complex of Pakistan, NESCOM, Islamabad.
- 6 weeks Internship at PTCL, Rawalpindi.

Personal Profile

Father's name: Abdul Shakoor
CNIC Number: 36501-1752069-9
Date of Birth: February 02, 1997
Domicile: Sahiwal
Nationality: Pakistani
Religion: Islam

References

Mr. Khalid Jamil Azizi
Director Applied Technology
National Electronics Complex of Pakistan,
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