Jawad Haider
BS (EE)

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Education

National University of Computer and Emerging Sciences, Islamabad
BS (Electrical Engineering) – 2017
Majors: Industrial Process Control, Digital Control System, Power Electronics, Power Distribution and Utilization, Electromechanical Systems
Al-Beruni Govt. College, Pind Dadan Khan
F.Sc. (Pre- Engineering) - 2013
Raja Ghazanfar Ali Khan Govt. High School Pind Dadan Khan
Matriculation (Science) - 2011

Projects

Final Year Project [ADS, HFSS, LT-spice]
RF Energy Harvesting Rectenna:
It captures the ambient free radio frequency energy and converts it into useable DC for low power devices like wireless sensors, cellular phones to lessen the use of batteries.
Automated Industrial Control [PLC]
In this project we automated bottles filling process in which bottles of different colors and tastes were being filled in particular numbers and after specific time interval, handled through PLC and HMI.
Remote Weather Station [8051 Microcontroller, DHT11, LM35, IR sensors combination]
It measures temperature, wind speed, humidity in air, wind direction and sends it to LCD using Bluetooth module.
Buck Boost Converter [DIAC, TRIAC]
A DC to DC converter which gives output greater than or less than the input voltage according to requirement.
Variable Power Supply [LM317, LM337]
It gives regulated voltage supply between positive and negative voltage ranges by using positive and negative voltage regulators.
Line Follower Robot [DLD, IR sensors combination]
A digital logic based robot which follows a colored line with black background. It uses IR sensor combination to detect the line to be followed.
Living Room [AutoCAD]
A 3D Model of living room using AutoCAD.
Light Sensor [NPN transistor, LDR]
It detects the presence of light.

Work Experience

ICI-Khewra (Intern) – June 14 – june 30

Honors & Awards

PM's National ICT merit based Scholarship for BS program, 2013-2017
PEEF Scholarship 2011-2013
Winner of Component de Electric in IEEE'14.
1st position in Urdu Essay Writing at tehsil level.
2nd position in Urdu Essay Writing at district level.
Participated in Urdu Essay Writing at division level.

Skills

8051 Microcontroller [Programming and interfacing of 8051, Control of devices through it]
ADS [Impedance matching, Insertion of transmission lines, Layout design]
Visio [Flow chart, Block diagram, Giant chart]
AutoCAD [Front view, Side view, 2D Modelling, 3D Modelling]
LT-Spice [Antenna design]
Multisim [Basic electronic circuit simulation]

Tools

Advance Design System | NI Multisim 10 | AutoCAD | Visio | 8051 Microcontroller | Kiel | MATLAB | MS Word | HFSS | LT-Spice

Activities

Event (Wacky Races) Head - NaSCon'16
Event (Wacky Races) Vice Head - NaSCon'15
Event (Robo Sprint) Vice Head-IEEE'15
Participated in Circuit Mania, Math Magician, Competitions - NaSCon'15