Usman IlamDin

ELECTRICAL ENGINEER

📞 (92) 301-5804375 | ✉ usmanilamdin65@gmail.com | ⌗ Usman-IlamDin | in usmanilamdin

Objective

To utilize my technical skills for achieving the target and developing the best performance in the organization. I would like to implement my innovative ideas, skills and creativity for accomplishing the projects. I am a third year Electrical Engineer student at University of engineering and technology, Lahore. I have developed excellent analytical and leadership skills through my degree program. My determination and dedication are highlighted by my achievement in my academics.

Education

University of Engineering and Technology   *LAHORE, PK*

BACHELOR OF ELECTRICAL ENGINEERING IN EMBEDDED: 3.25/4.0   *Third Year*

Punjab College Campus 8   *LAHORE, PK*

FSC PRE-ENGINEERING, MARKS: 1012/1100   *NOV. 2017*

Experience

BullahShah Paper Mill/BSP packages/Intern
- Gain extensive knowledge about DOL,soft starter,Forward Reverse,Star Delta connection
- Hand on experience of variable frequency Drive ABB DC600 and 800 models
- learn the techniques of IGBT and RNT card testing

Machine Learning/Courses
link: Verification
- identify potential applications of machine learning in practice.
- Describe the core differences in analyses enabled by regression, classification, and clustering.
- Select the appropriate machine learning task for a potential application.
- Apply regression, classification, clustering, retrieval, recommender systems, and deep learning.
- Represent data as features to serve as input to machine learning models.
- Assess the model quality in terms of relevant error metrics for each task."
- Utilize a data-set to fit a model to analyze new data.
- Build an end-to-end application that uses machine learning at its core.
- Implement these techniques in Python.

Data Visualization using Python/Course
link: Verification
- Method of read csv files into a Turicreate dataframe and process and manipulate the data in the dataframe.
- Introduction to Data Visualization Tools.
- Basic and Specialized Visualization Tools.
- Advanced Visualizations and Geospatial Data.

Programming Language
Ability to program using C and python, use of python to make graphics, use of C in simple Game development.

Skills

Machine Learning A Case Study Approach
- Python Programming.
- Machine Learning Concepts.
- Machine Learning
- Deep Learning.

Data Visualization Using Python

Software Engineer Intern (Part Time)

- Data Virtualization
- Data Visualization(Data-viz)
- Matplotlib Numpy

Altium Pcb Designing

- Debugging And Designing Smd Circuits On Altium.
- Understanding And Knowledge Of Pcb Library.
- Understanding And Application Of Circuit Simulation Using Altium.
- Designing Of Schematic Circuit.

Orcad Cadence

- Understanding The Use Of Pspice Orcad For Simulating Circuits.
- Use Of Orcad Layout For Schematic Design.
- Use Of Orcad Footprint Library For Designing A Circuit.

Xilinx Spartan 3x And 100t

- Understanding The Use Of Xilinx And Fpga Control.
- Use Of Xilinx To Make Gate Level Circuits And Implement On FPGA.
- Use And Understanding Of Behavioural Coding On Xilinx.

Projects

SMD Yellow Dot Matrix

- Implement Darlington pair connection.
- Observe switching characteristic of Darlington pair.
- use MUX to reduce no of I/O connections.

30 Volt Variable DC Power Supply

- Observe the behavior of diode bridge Rectification and its benefits.
- Improve the efficiency of AC to DC converter.
- Minimize the losses.

Home Automation using Arduino UNO

- Build an IOT base smart-Home.
- gain basic understanding about micro controller.
- experience micro controller programing on LaunchPad tiva-C and STM32.

Line following Robot

- code LFR interrupt based with high accuracy.
- Implement PID controller on tiva-C.
- Provide isolation between micro controller and high rating circuit.
- Infrared sensor and their implementation.

Audio Amplifier

- Implement Classes A Amplifies using LM317.
- Ensure its deliver up to 1W power with 5-10 percent distortion.
- Efficiently design filter to reduce the noise and Distortion.

Dimmer using Micro controllers

- Build optocoupler circuit to isolate micro controller and high voltage end.
- Generate PWm for firing and extinction angle control.
- control the power of connected load.

Co-Curricular Activities

- IEEE Robotics team member
- IET documentation team member.
- Graphic designing, familiar with Illustrator.
- Book Readings.