

LIFI BASED SHOPPING MALL INFORMATION SYSTEM

AIM:

Design and development of LIFI based shopping mall information system.

PURPOSE:

Now a days shopping malls are huge and have all kind of items. It takes time to customers to take items and billing. We can't reduce this time consuming process. But by providing information of item details to basket while passing through the line is very useful and time will be save. Here we want to implement this kind of system. LIFI transmitters placed on top of ceiling which can provide light and that area items information through light. Every basket has LIFI receiver and can get data and displaying on LCD display. This project title is LIFI based shopping mall information system using Arduino.

DESCRIPTION:

LIFI module connected to Arduino though UART port. It has send and receive data and process to Arduino through serial communication.

WORKING:

Here there are two sections one is transmitter which can transmit products (items) information through LIFI communication. Receiver Section placed on based that can receive products information and displaying on LCD display. Based on requirement we can place multiple LIFI transmitters and multiple LIFI receivers.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
LIFI Module	:	UART based LIFI module
Power Source	:	12v 1 amp DC battery

SOFTWARE:

Arduino IDE
Proteus based circuit diagram

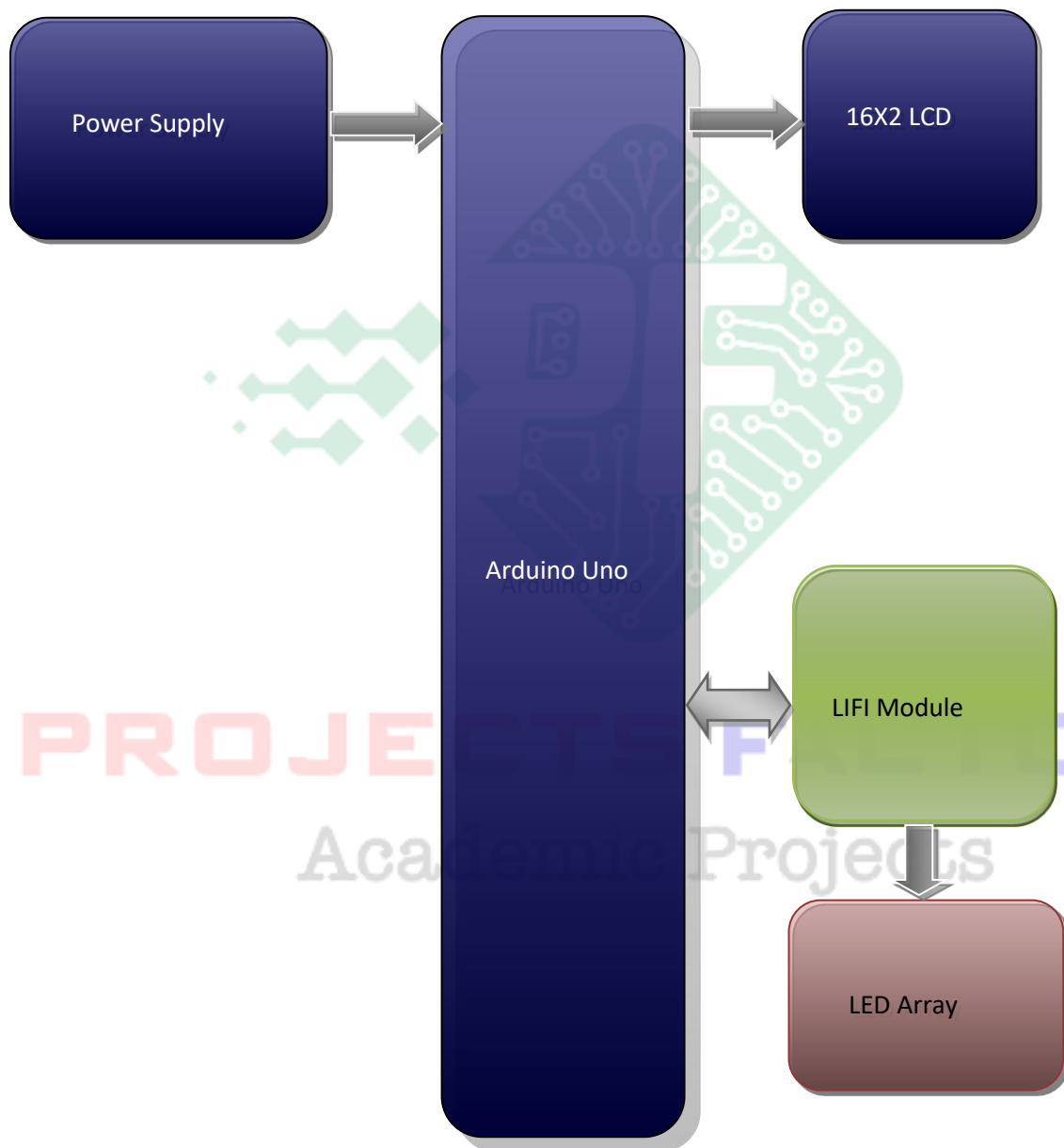
APPLICATIONS:

- LIFI communication
- LIFI based projects
- LIFI based information transmission
- LIFI based shopping mall information system

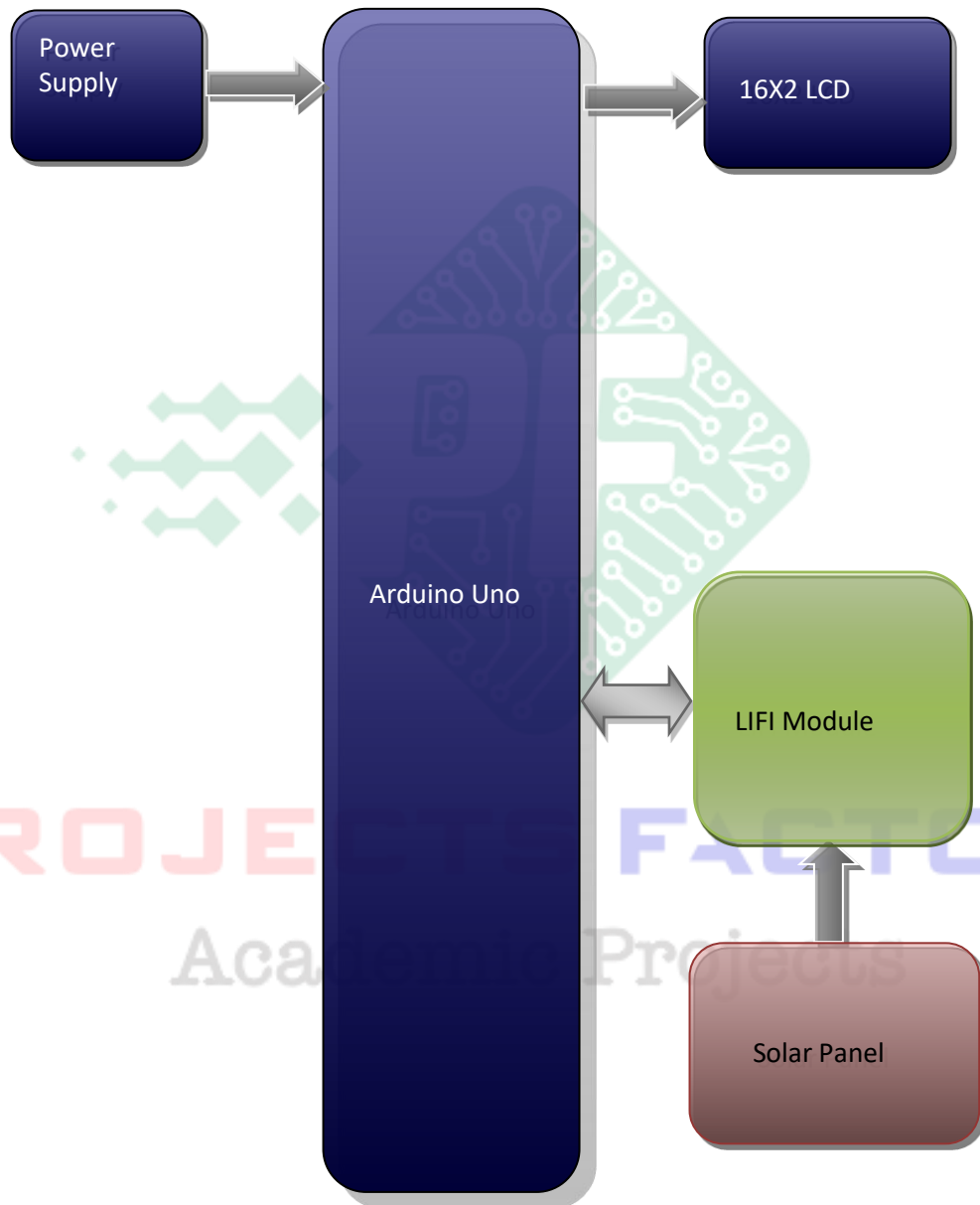
PROJECTS FACTORY
Academic Projects

BLOCK DIAGRAM:

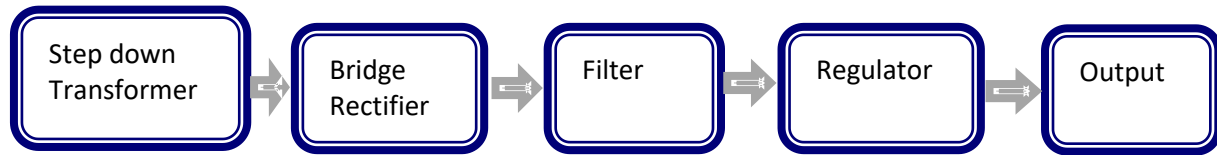
Transmitter Section:



Receiver Section:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered LIFI module interfacing
- LIFI Data communication interface



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