**A picture containing tableware, clipart, plate, dishware

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**A Project Report**

**on**

**IOT BASED SMART PARKING SYSTEM USING BEAGLEBONE BLACK WIRELESS**

**For the award of**

**ONTARIO GRADUATE CERTIFICATE**

Submitted by

Joyal Raju (C0749019)

Merlin Mariam Thankachan (C0748721)

Sruthy Krishnan (C0749122)

Under the guidance of

**Dr. Mike Aleshams**

**ESE-4009 Embedded System Design Project**

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**Abstract**

The goal of this project was to develop an IoT based Smart Parking System using a Beaglebone Black Wireless. Due to the immense increase in the number of buildings and infrastructures around the world, traffic congestion also arises as a problem. Smart Parking where technology interfaces with needs can be implemented to curtail this issue. By such ways, human effort can be minimised as well as effective usage of technology and space can also me done. It saves a lot of time and fuel for the users as well.

IoT consists of interrelating devices with Internet, through which the data can be transfer over the network without any human-to-human interaction and can be analyzed, stored, extracted, and imported by users from anywhere. In this project, the primary focus is to connect the Beaglebone Black Wireless to an open source web platform ThingSpeak channel, through which the users can observe the status of the parking spot from anywhere.

Finalization, development, and execution of project hardware was done in a timely manner. Testing of each hardware was done at the initial stage to ensure full functionality before interfacing to the processor. The final project was tested for data collection from the peripheral devices and sending it to the web platform. A user guide is also provided for using and installing the hardware.

**Acknowledgments**

On submission of this project on “IoT BASED SMART CAR PARKING SYSTEM”, we are indebted to all those who helped us to make this project successful. Especially, everyone at Embedded Systems Design Engineering Class in Lambton College in Toronto deserves a great appreciation for providing a healthy environment and complementing each other to complete this project.

Our hearty gratitude to project guide, Dr. Mike Aleshams who contributed greatly to coordinate our project efficiently, doing everything in time and filing final project report.

We would also like to extend our gratitude to Dr. Takis Zourntos, Course Coordinator, Embedded Systems Design Engineering for providing necessary cooperation during troubleshooting times.

Lambton College in Toronto is really blessed with supportive faculty members. Thanks to all our professors in college who helped us throughout our course.

Joyal Raju

Merlin Mariam Thankachan

Sruthy Krishnan

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**Chapter I**

**Introduction**

**Overview**

This project is regarding the development of an IoT based smart parking system, which allows the user to have live feedback on the availability of parking spots in an area. Beaglebone black wireless microcontroller is employed to collect and send data from the peripheral devices like Ultrasonic sensor, 16x2 LCD, and a stepper motor. Beaglebone black wireless has an inbuilt Wi-Fi module which connects it to the nearest Wi-Fi network to make it an IOT product. The projects make use of the ThingSpeak server, to collect data in real-time and display to the user from anywhere. The average cost of the project comes around 400$.

**Problem Statement**

The number of vehicles on the roads is rising at an exponential rate as the cities are developing. Traffic congestion is a problem that happened as a part of this. If the conventional parking system is continued to be followed it will end in an inefficient parking system. So, it is the need of the day to incorporate technology with the parking system to efficiently utilize the space. The delay which will be encountered by the commutators, as well as constant checking for parking space, can also be eliminated. IoT service for parking of vehicles is incorporated to make the users easy to find a spot, even before they reach their destination.

**Goal and Objectives**

* **Goal**

Develop an IoT based Smart Parking System powered by a Beaglebone Black Wireless by the end of Summer 2020 academic term.

* **Objective**
* Testing each module individually to ensure full functionality.
* Programming the Beaglebone Black Wireless to interface with Ultrasonic sensors, stepper motor, 16x2 LCD display, Adafruit Ultimate Breakout GPS module and ThingSpeak.
* Configuring the Wi-fi properties of the project and connecting it with the ThingSpeak channel

**The Scope of the Project**

* **Deliverable**
* An IoT based parking system enabled by Beaglebone Black Wireless.
* Live feedback capabilities to ThinSpeak server.
* Effective judgement of availability of parking spot using Ultrasonic sensors.
* GPS location of the parking lot with the help of Adafruit ultimate GPS.
* **Milestones**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Proposal | June 02, 2020 | June 11, 2020 |  |
| Finalizing hardware requirements | June 12, 2020 | June 15, 2020 | MERLIN |
| Testing each hardware parts | June 25, 2020 | June 29, 2020 | SRUTHY |
| Designing circuit in software | June 16, 2020 | July 7, 2020 | MERLIN |
| Interfacing Ultrasonic sensors with Beaglebone Black Wireless | July 08, 2020 | July 13, 2020 | MERLIN |
| Interfacing LCD with Beaglebone Black Wireless | July 14, 2020 | July 21, 2020 | SRUTHY |
| Interfacing Stepper motor with Beaglebone Black Wireless | July 22, 2020 | July 28, 2020 | JOYAL |
| Interfacing GPS module with Beaglebone Black Wireless | July 29, 2020 | August 05, 2020 | JOYAL |
| Interfacing ThingSpeak with Beaglebone Black Wireless | August 06, 2020 | August 13, 2020 | JOYAL |
| PCB Designing | August 14, 2020 | August 21, 2020 | SRUTHY |
| Final Presentation | August 22, 2020 | August 27, 2020 |  |
| Final Report | August 28, 2020 |  |  |

* **Limitations**

* + A delay of maximum 15 seconds is there to update the ThingSpeak .
  + The accuracy of GPS module is within 10 metres.
  + Comparatively high cost

**Outcomes and Benefits**

* Significantly faster and precise system in comparison with the existing ones
* Usage of an open source IoT platform provides free usage of user end applications.
* False triggering while using IR sensors can be eliminated.

**Facilities and Resources**

* **Intellectual Resources**
  + Exploring Beaglebone from Derek Molloy.
* Adafruit Ultimate GPS datasheet by Adafruit learning system.
* HC-SR04 Ultrasonic sensor datasheet by ELECFreaks
* User’s guide for EasyEDA.

**Procedure and Methodology**

1. Install a suitable Debian image from Beagleboard.org on Beaglebone Black Wireless.
2. Complete the testing of each hardware components and check its power consumption.
3. Interface each hardware to Beaglebone Black Wireless.
4. Make an IoT web platform with cloud storage, that can indicate the live status of the parking spot.
5. After connecting the hardware with the IoT web platform, deploy the final code.
6. Make program auto-run while power up BBB wireless using the service routine.

**Chapter II**

**Literature Review**

In thearticle “***Parking management system project using pic microcontroller”*** by Microcontrollers lab (2017),[1]it is discussing a smart parking system using PIC18F46K22 as the microprocessor**.** IR sensors are used there for detecting the presence of vehicles. But the IR sensors calculations can highly be affected by sunlight and dark objects and hence malfunctioning of the whole system might occur. Furthermore, interfacing WiFi module with PIC seems to be more challenging.

***“Internet of Things (IoT) based Smart Parking Reservation System using Raspberry-pi”*** by E. Cassin Thangam, M. Mohan, J. Ganesh, C.V. Sukesh [2]can be implemented by using Raspberry pi where pre booking of slots can be done from the app. Yet it may invite another problem of credentials matching and payment. Also, taking pictures using Raspberry pi3 camera to check the authenticity of the user is highly influenced by the weather.

***“Intelligent smart Parking System”*** by Kanteti, Srikar, & Ramesh (2017) [3] deals with smart parking system which offers automated features, rotary parking and sensor technology. However, CMOS sensors which are used for number plate detection and this may produce incorrect results as it can be affected by light

“***RFID based Smart car parking and security system using Arduino”* [**4**]** R.R.V Dhari and V.Venkatesh (2016) talks about the system which ensures security using RFID tag. But the speed with which Arduino can be operated is less as well as the security system will malfunction when the RFID tag has any problem.

**Chapter III**

**Requirements / Analysis**

**Hardware**

The project requires a core microprocessor/microcontroller capable of processing different types of operations simultaneously. Therefore, Beaglebone black wireless [5]was selected for the job. The team decided to move forward with designing a dotted PCB to incorporate the circuit to make the project uncomplicated and robust.

The hardware requirements of this project are:

* Beaglebone black wireless
* 16\*2 Character LCD module with I2C adapter
* 28BYJ-48 stepper motor
* ULN2003 motor driver module
* Ultrasonic sensor module (4 nos.)
* Adafruit ultimate GPS breakout module
* Breadboard and jumper wires
* General use PCB and soldering unit
* Arduino UNO board for testing
* Digital multimeter
* Resistors.

**Software**

The whole project is made in a Linux operating system, as this project uses a beagleboard device. For the development of codes for the project, the team will need a Linux machine or a Windows PC with Putty installed. The Beaglebone black wireless comes with a Debian OS flashed in it.

Following is a list of required software for this project:

* Debian for Beaglebone black wireless.
* Putty for Windows PC for programming and testing.
* Embedded C and C++ for programming
* EasyEDA – An open source schematic and PCB design tool.
* ThingSpeak IOT webserver for cloud services
* Microsoft office – for project presentation and documentation of final report.
* Bash script for making the script to run program while booting up.

**Power Requirement**

The Beaglebone black wireless works on 3.3V while the other peripheral devices work on 5V. However, Beaglebone has built-in voltage regulator to step down the voltage. So, the entire system can be powered using a 5V adapter.

**Block Diagram and Product Development**

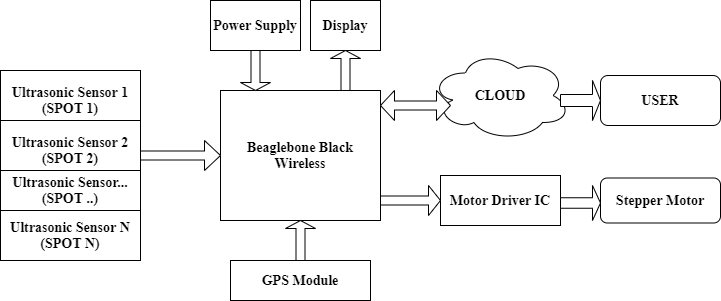


Fig 3.1: *Block Diagram of the Project*

Fig 3.2 *Block Diagram of Product Development*

**Chapter IV**

**Design**

**Schematic Layout**

EasyEDA, which is an open source platform is used to design the schematic circuit diagram for the whole project [6]. Interfacing Beaglebone Black Wireless with all other components such as the LCD display, Ultrasonic sensor, Stepper motor via ULN2003 motor driver and Adafruit Ultimate Breakout GPS module is shown in Fig:4.1.

A close up of a map

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Fig 4.1: *Schematic Layout of the Project*

**Beaglebone Black Wireless**

As mentioned in the previous sections, Beaglebone Black Wireless acts as the central processing unit of the whole project. Beaglebone Black Wireless is a single board computer featuring OSD3358 ARM Cortex-A8 processor from Octavo Systems . 10/100 Ethernet port is replaced by 802.11 b/g/n 2.4 GHz Wi-Fi and Bluetooth. The below shown Fig 4.2 is a Beaglebone Black Wireless and the pinout diagram is shown in Fig 4.3.

A circuit board

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Fig 4.2: *Beaglebone Black Wireless*

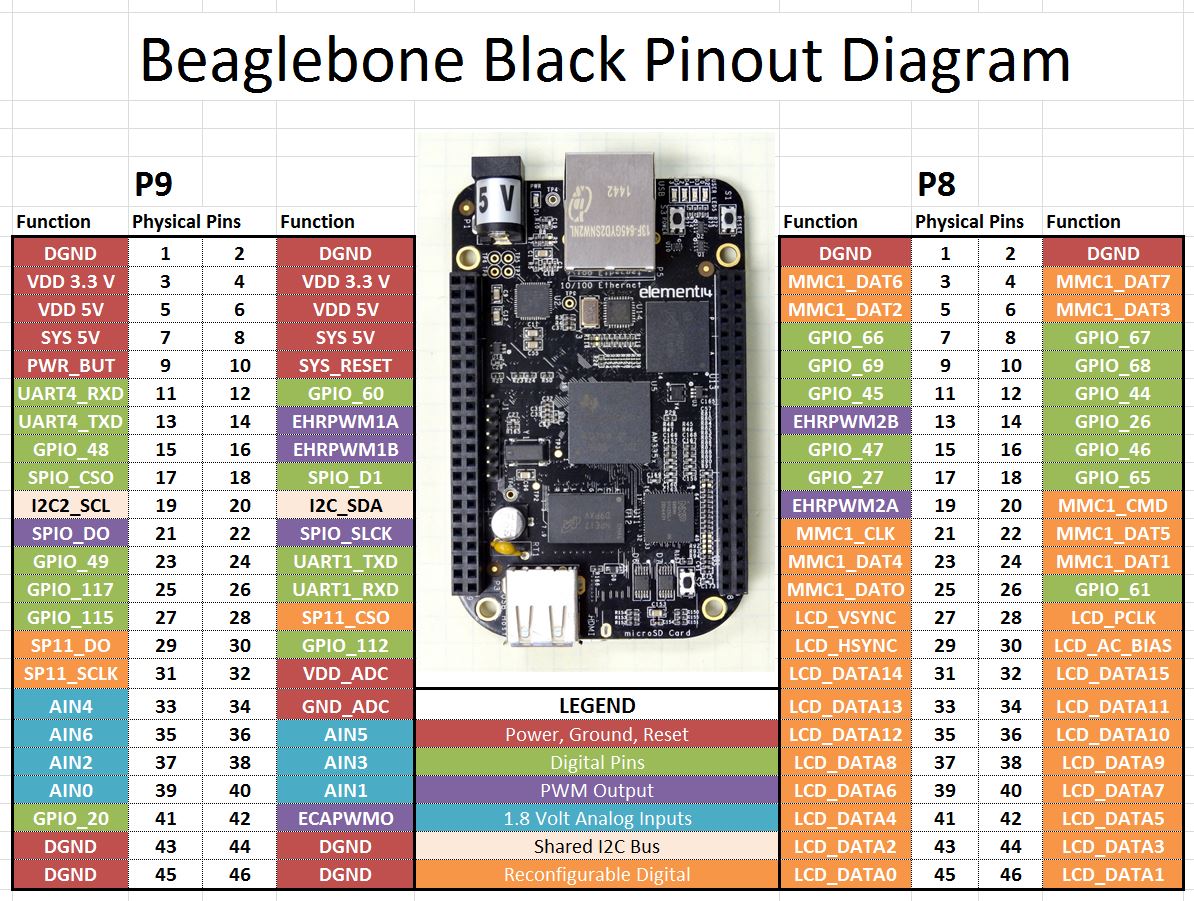


Fig 4.3: *Pinout of Beaglebone Black*

**16x2 Character LCD with I2C adapter**

The 16x2 LCD, as given in fig 4.4 supports 2 lines with 16 alphanumeric characters with a built-in controller [7]. This is used in our project to display the available number of parking spots at the entrance. The operating voltage for this display is from 4.7V to 5.3V. It comes with an I2C adapter soldered at the back of LCD. The connection between LCD and the microcontroller is established through the I2C adapter. Interfacing is done by using 4-bit mode as it requires fewer interface connections. The pinout connections are given in table 4.1.

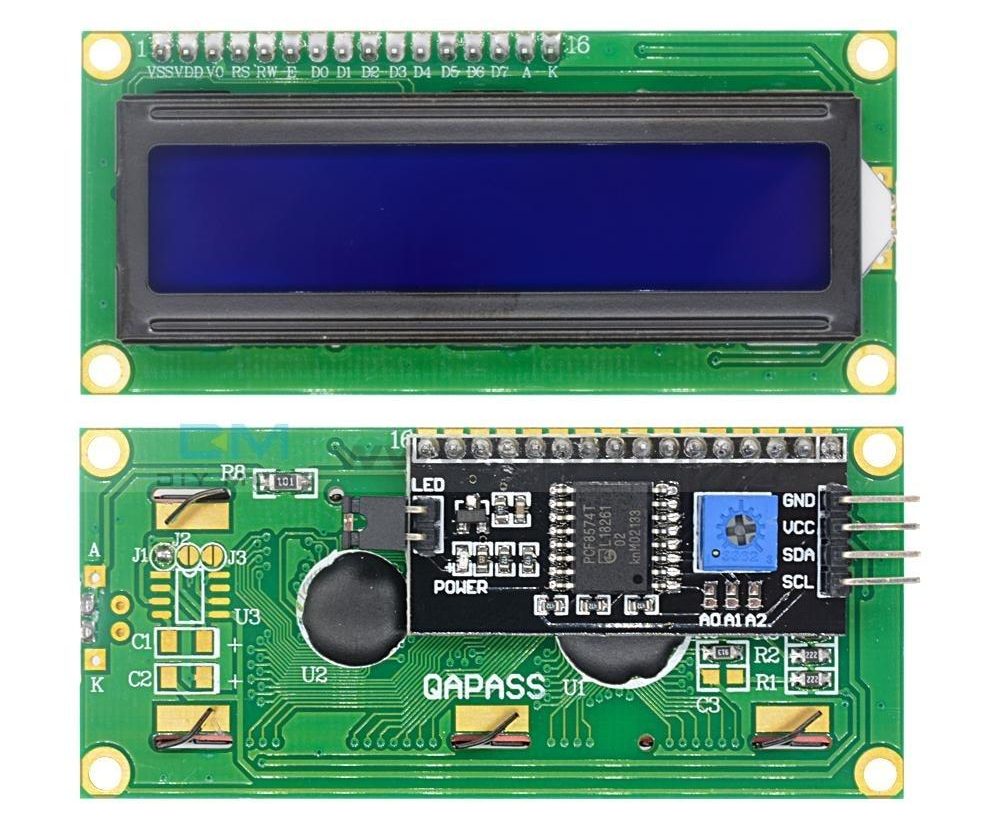


Fig 4.4: *16x2 Character display with I2C adapter*

|  |  |
| --- | --- |
| 16x2 LCD Display | BBB Wireless |
| SCL | I2C\_SCL(P9.19) |
| SDA | I2C\_SDA(P9.20) |

Table 4.1: *Pin connections between LCD and BBB Wireless*

**Stepper Motor with ULN 2003**

28BYJ-48, which is a 4 – phase stepper motor, as shown in fig 4.5, is used in this project to resemble a gate lever of a parking spot. It is a unipolar stepper motor with a ULN2003 driver circuit provided with a 5V DC supply[8]. Signals are given to inputs of the ULN2003 driver circuit, shown in fig 4.5, and it channels it to the stepper motor by enabling it with high current signals that the MCU is not capable of. The pin connection between the BBB wireless, ULN 2003, and the stepper motor is given in table 4.2.



Fig 4.5: *Unipolar Stepper motor with ULN2003* (Bot Shop, n.d.)

|  |  |  |
| --- | --- | --- |
| STEPPER MOTOR | ULN2003 O/P & I/P | PIC MCU |
| BLUE | 1 | GPIO\_47(P8.15) |
| PINK | 2 | GPIO\_46 (P8.16) |
| YELLOW | 3 | GPIO\_27 (P8.17) |
| ORANGE | 4 | GPIO\_65 (P8.18) |

Table 4.2: *Pin Connections between Stepper Motor, ULN 2003 Driver and BBB Wireless*

**Ultrasonic Sensor Module**

An Ultrasonic sensor, as shown in the fig 4.6, is used to detect the presence of vehicle or obstacle in a parking spot in this project. In the existing system, the IR sensor is used for this purpose. However, the interpretations of the IR sensor can be manipulated by sunlight or dark objects which can be overcome using the Ultrasonic sensor [9]. Moreover, interfacing it with Beaglebone black wireless is easier as well. The input to the sensor is fed to the TRIG pin from the microprocessor and output is taken from the ECHO pin. Since the output from the Ultrasonic sensor is 5V which cannot be fed directly to Beaglebone, a 1K ohm resistor is added in between [10].



Fig 4.6: *Ultrasonic sensor module* (Teczium, n.d.)

**Adafruit Ultimate GPS Breakout Module**

The Adafruit Ultimate GPS Breakout module, shown in fig 4.7 is used to update the position of parking location in this project. The breakout is built around the MTK3339 chipset, a no-nonsense, high-quality GPS module that can track up to 22 satellites on 66 channels, has an excellent high-sensitivity receiver (-165 dB tracking), and a built-in antenna [11]. It can do up to 10 location updates a second for high speed, high sensitivity logging or tracking. It provides better position accuracy and higher resolution thanks to its sensitivity, updates, and channels.

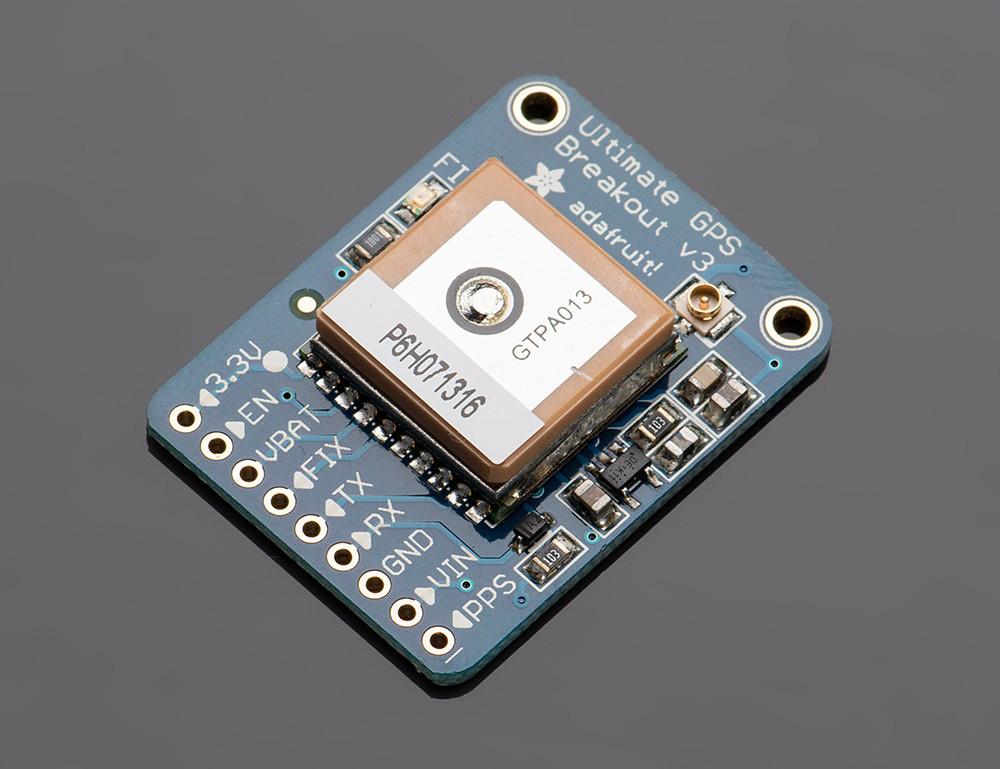
****

Fig 4.7: *Adafruit Ultimate GPS breakout module*

|  |  |
| --- | --- |
| Adafruit GPS | BBB Wireless |
| TX | UART1\_RXD(P8.26) |
| RX | UART1\_TXD(P8.24) |

Table 4.3: *Pin connection between GPS module and BBB wireless*

Since the working voltage of the GPS module is between 3.3V and 5V, the direct interfacing of the GPS module and Beaglebone Black was possible. The RX pin and TX pin of the GPS module is connected to the UART\_RXD pin and UART\_TXD pin of Beaglebone Black wireless respectively [12].

**ThingSpeak for IOT Projects**

It is an open source IoT platform, where it allows the IoT system to accumulate, visualize, analyze, and store the live data in the cloud. [13]. It uses MATLAB code to execute the data collected to visualize it in a live stream. This platform enables the project to get the live status of the parking spot from anywhere. The basic working of this platform is by providing a channel with a set of unique secret write and read API key to the client.

As shown in fig 4.8, the sensors read the data and push it to the hosted ThingSpeak server using an HTTP POST request using the SocketClient class.



Fig 4.8: *The command for writing data to ThingSpeak from the IOT system*

The MATLAB function thingSpeakRead is used to read data send by the IOT system.

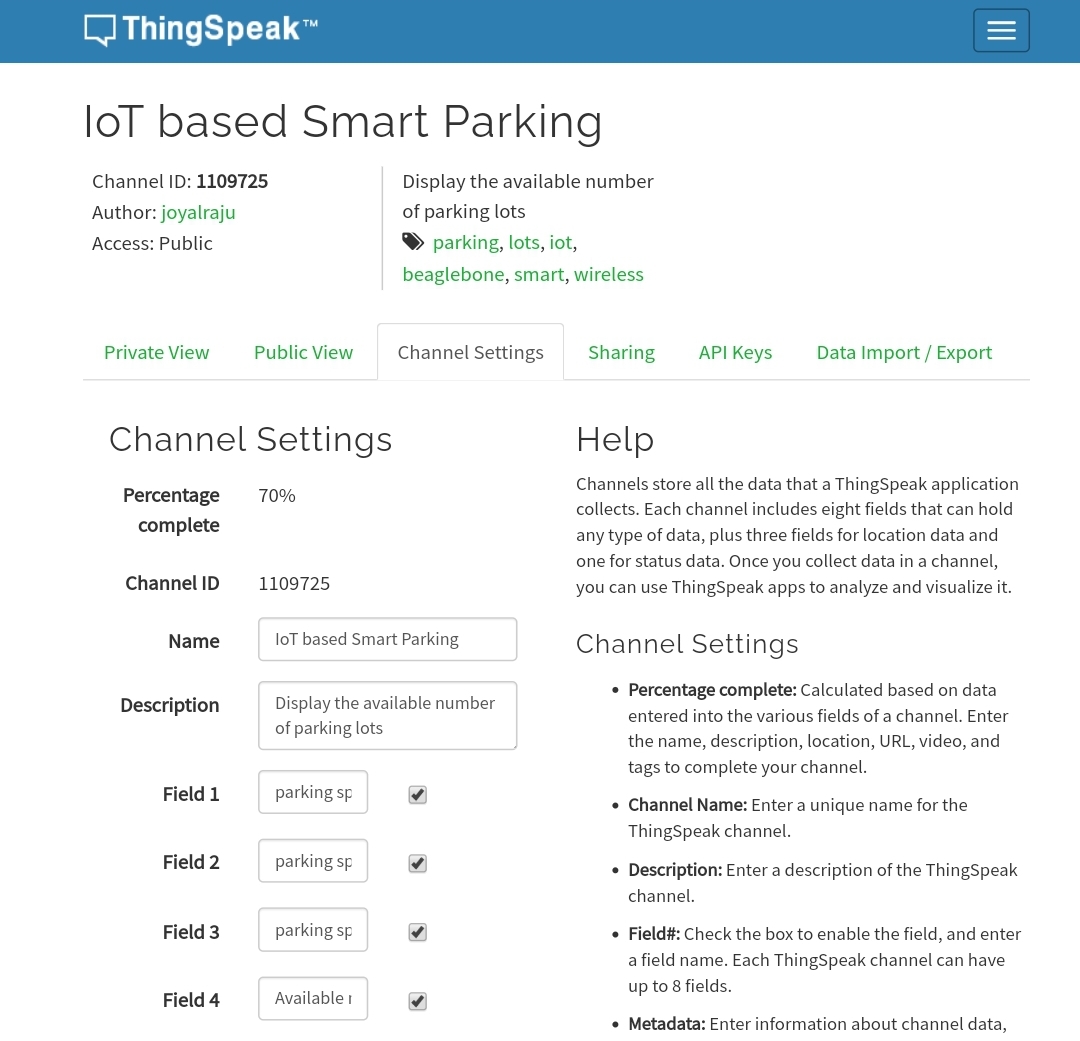


Fig 4.9: *ThingSpeak Parking Spot Channel*

**PCB Design**

PCB design for our project is done on EasyEDA. It is an easier and powerful online PCB design tool that allows to design and share projects. Printable PCB layer image output is also supported in PDF, PNG, and SVG formats [15]. Circuit designing is completed by using manual routing.

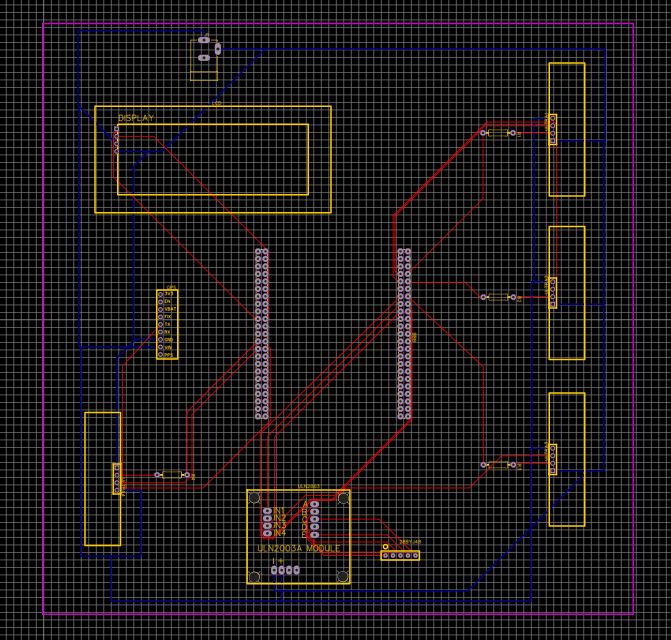


Fig 4.10: *PCB Design of the project*

**Chapter V**

**Implementation and Test**

**The Beaglebone Black Wireless and the Peripherals**

As discussed earlier, the whole project is powered up by a 5 V 2A 10W DC adapter. The peripheral devices such as the LCD, stepper motor, Ultrasonic sensors and the GPS module are powered from the 5V supply since the operating voltage for all falls in the same range. When the system is powered up, BBB takes about 15s for booting up and afterwards the LCD starts to display [14]. It displays the name of the project, latitude and longitude, number of spots and its availability. Then the processor starts to detect the Ultrasonic sensor and the availability of parking space will be updated timely on the display. The status which can be viewed from the LCD, will be also available from the ThingSpeak channel. The ultrasonic sensor at the entrance will check the presence of vehicle there to control the movement of the barrier to allow or stop the vehicles. Fig:5.1 shows the LCD after the system is booted up and initiated.

A picture containing table

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Fig 5.1: *Initiating the system*

The following fig 5.2, shows the detection of obstacles by the Ultrasonic sensor and updating the result on the display.

![A circuit board

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SnARXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA4OjIzIDE5OjExOjAzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4NwAAkpIAAgAAAAM4NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Fig 5.2: *Working of the system*

**BBB Wireless and GPS Module**

When the module is powered up, the red on-board LED will start blinking. Until the module gets fix the blinking continues and the frequency reduces and the connection is established in an intermediate frequency. The LED will blink in between when there are updates .

**BBB Wireless, Peripherals and ThingSpeak Channel**

The status of the parking spots is updated with a delay of a maximum of 15 seconds in the ThingSpeak channel which is shown in Fig:5.3. This delay is inbuilt in the ThingSpeak application for the trial version and for the paid version it will reduce up to 5 seconds .

**A screenshot of a social media post

Description automatically generated**

Fig 5.3: *Status of the Parking Spots*

**Chapter VI**

**Evaluation**

**Introduction**

This section explains about the evaluation of the final system for ensuring the proper functioning. This explains also about the procedures and approaches that we have undergone to perform troubleshooting at each level of the project.

**Minimum Requirements**

The minimum requirement of the project was to develop a sensing unit using Ultrasonic sensors for vehicle detection and sending the information to an IoT web platform (ThingSpeak) with a data storage facility in a user-friendly format.

**Troubleshooting**

The most difficult task that we faced while troubleshooting was interfacing ultrasonic sensor at the entrance. Though the sensors at the parking space works well, while combining that with the entrance the one at the entrance was not triggering properly.

Also, in the case of ThingSpeak, we use a header file called sstream to establish the http request. But it is not available for C language. So, we were compelled to change our system to the C++ language.

For GPS module UART must be manually enabled. But later we made dtb file for that so it will be enabled while booting up.

While using I2C communication in LCD, each command or data should be split into upper and lower nibbles.

**Chapter VII**

**Conclusion**

The main aim of this project was to develop an IoT based Smart parking system which correctly senses the presence of vehicles and thereby update the availability in the cloud. Establishing a connection between the IoT physical system and the web platform was inevitable for accomplishing the objective. On completion of the requirements, the user can view the live status of the parking spot from the public SMART [PARKING LOT](https://thingspeak.com/channels/1033088) channel in the Thingspeak platform.

**Future Work**

The project has been completed meeting all the objectives, though the future scope of this cannot be ignored. Modifications or further updates can be done on the project. Some of it is listing below:

1. A reservation of the parking spot through an application or website can be included in the project which makes it more user friendly.
2. Other options of cloud storage can be considered to overcome the delay issue of ThingSpeak.
3. An LED pathway can be added to the project which will direct the users to vacant spots.
4. If available Beaglebone can be replaced with any other processor which is of higher clock frequency.
5. Accuracy of GPS can be improved.

**Chapter VIII**

**User’s Guide**

**Introduction**

IoT based Smart Parking System is a web platform which offers live updates about the availability of parking spots to make the driving easier. The instructions are explained in the upcoming sections to proper installation and working.

**Features**

* 4 Ultrasonic Sensors for 3 parking spots and one at the entrance to detect the presence of vehicles.
* 16x2 LCD display for driver’s assistance which shows the available number of parking spots.
* Barrier gate operated by a stepper motor to control the entry of vehicles.
* [ThingSpeak](https://thingspeak.com/channels/1033088) channel – a web platform for live update of parking spots along with location information.

This system detects the presence of vehicles at the entrance and let it to enter if the parking is available. The sensors at the parking spots also senses the presence of vehicle and displays the parking availability in the LCD at the entrance. The same status can be seen in the ThingSpeak channel from anywhere. The SSID name of the connection and the password is already set in the hardware. It will automatically connect to the Wi-Fi on powering up.

The information about the included components and the technical specifications of the system is given below in Table 8.1 and Table 8.2.

|  |  |
| --- | --- |
| COMPONENT | FUNCTION |
| LCD DISPLAY | To display the availability of the parking lot to the drivers at the entrance |
| BARRIER GATE | To let and not to let the vehicles into the lot using a stepper motor. |
| ULTRASONIC SENSOR MODULES | To detect the presence of car at the entrance as well as in the slot |
| CONTROL UNIT | To collect and send the data to the ThingSpeak channel |

Table 8.1: *Included Components*

|  |  |
| --- | --- |
| COMPONENT | FUNCTION |
| Rated operating voltage | 5 V DC |
| Power requirements | 10 W |
| Maximum current | 2.1 A |
| Working Temperature | -20℃ - 70℃ |
| Sensor Distance Detection | 2cm to 400 cm |
| Sensor Angle Detection | 15 Degree |

Table 8.2: *Technical Specifications*

**Important Installation tips**

* **LCD Display** – LCD must be mounted at the entrance which offers clear visibility to the drivers. It can be mounted be drilling holes at the edges of the display.
* **Barrier Gate –** The barrier gate should be placed at least 1m to 1.5 m height from the ground so that the movement of vehicles can be properly controlled.
* **Sensors –** The sensor should be placed about 25” above from the ground as there is a risk of malfunction. Sensors should be horizontally placed by ensuring 90 degrees angle to the ground.

**Connecting to the web platform**

* The link to the ThingSpeak account is : <https://thingspeak.com/channels/1109725>
* This link can be shared among the drivers to get the live updates of parking lot availability and to view the status.
* The features of the website are:
* Can view the live status from anywhere.
* Status is available in graph format as well
* Location of the lot can be obtained from the channel.

**Chapter IX**

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