



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: MINISTRY INNOVATION

PS Code: SIH1300

Problem Statement Title: AUTOMATED PUBLIC LIGHTING

Team Name: POWER SNATCHERS

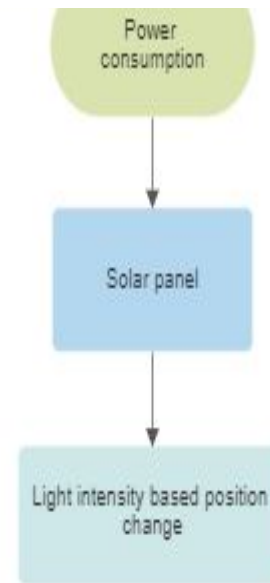
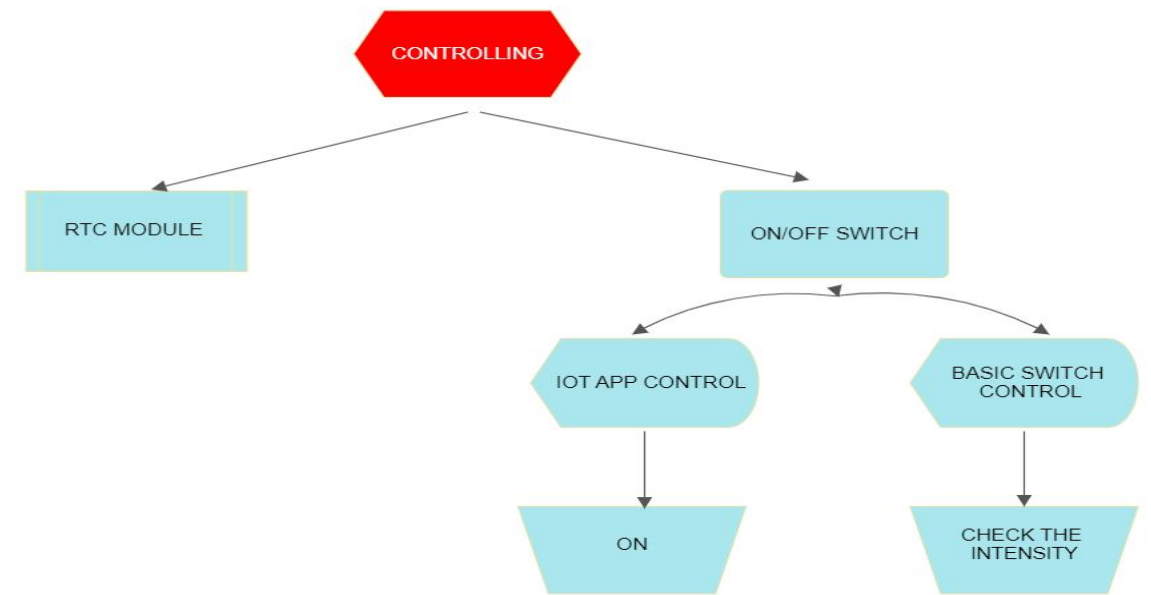
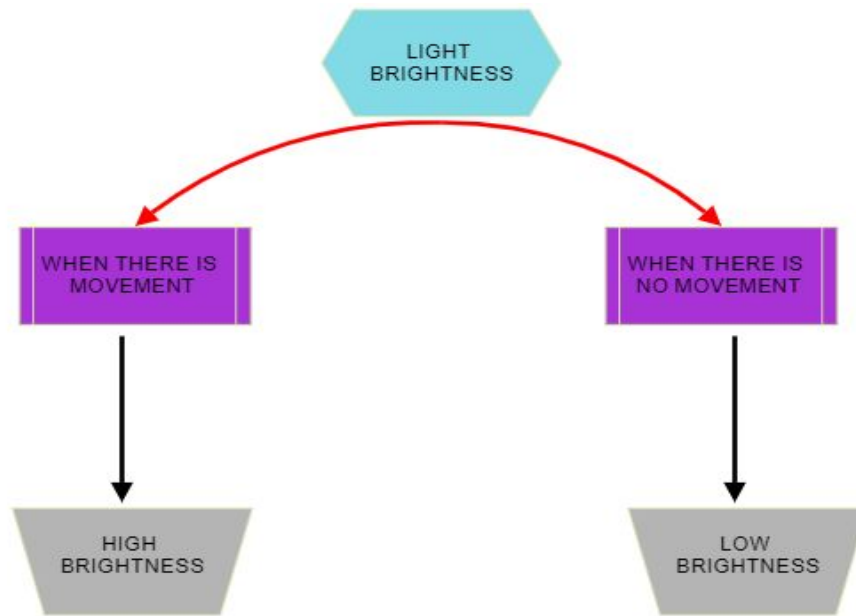
Team Leader Name: KAVI PRASHAAD.L

Institute Code (AISHE):

Institute Name: KONGU ENGINEERING COLLEGE

Theme Name: SMART AUTOMATION

Idea/Approach Details



Idea/Approach Details

SOLUTION FOR OUR PROBLEM;

- Solution for the above problem statement starts with real time clock module(**RTC**)
- Using **RTC, ON/OFF** conditions of the light is automized from **6PM** to **6AM**
- When we are in need of light before **6PM**,it can be operated using **IOT** and manual switching
- **IOT** is used for **controlling the light** using smart applications
- To reduce further more power consumptions The concepts of solar panel is introduced here
- The solar panel gets adjusted automatically in accordance **with high intensity** of a sunlight
- The energy produced by the solar panel is stored in lithium ion battery

KEY POINTS FOR PROBLEM STATEMENT

- From the lithium ion battery **20%** of the battery voltage is used initially to turn on the light.(it is applicable only during summer season)
- If it is rainy or monsoon season, initial **20% of the power consumption** from lithium ion battery is terminated
- Later on, the street light works by the power which is supplied externally
- When the **external power supply is interrupted** the light will use the lithium ion battery as a **backup for power supply**
- During summer season time range of **5AM** to **6AM**, if the battery voltage is greater than **50%**, then the battery voltage till **50% is utilized** to with hold the light in on state
- Here **by using human detector sensor,the intensity of the light can be adjusted** accordingly
- By applying all these ideas, **the power consumption & man power is reduced** which is a solution for the automated lighting

Team Member Details

Team Leader Name: L.KAVI PRASHAAD

Branch (B.E): Stream (ECE): Year (II):

Team Member 1 Name: S.S.NAVIN UDAYA

Branch (B.E): Stream (ECE): Year (II):

Team Member 2 Name: V.INDHUNATH

Branch (B.E): Stream (ECE): Year (II):

Team Member 3 Name: K.KISHORE

Branch (B.E): Stream (ECE): Year (II):

Team Member 4 Name: S.RITHIKA

Branch (B.E): Stream (ECE): Year (II):

Team Member 5 Name: P.B.PON KAVIYA

Branch (B.E): Stream (ECE): Year (II):

Team Mentor 1 Name: Type Your Name Here

Category (Academic) Expertise (AI/ML/Blockchain etc): Domain Experience (in years):

Team Mentor 2 Name: Type Your Name Here

Category (Industry): Expertise (AI/ML/Blockchain etc): Domain Experience (in years):

Important Pointers

Please ensure below pointers are met while

- ❑ Kindly keep the maximum slides limit to 4 pages
- ❑ All the topics should be utilized for description of your idea
- ❑ Try to avoid paragraphs and post your idea in points
- ❑ Keep your explanation precisely and easy to understand
- ❑ Idea should be unique and novel. If it has a business potential more weightage will be given.
- ❑ Apart from this PPT abstract of your idea will be asked separately while submitting
- ❑ You need to save the file in PDF and upload the same on portal. No PPT, Word Doc or any other format will be supported
- ❑ You can delete this slide (Important Pointers) when you upload the details of your idea on SIH portal.