



# REPORT OUTLINE



About the Company.



Instructionse



Submissions



About Internship



Internet of Things (IoT).



# BASIC INFORMATION

RK Technologies is a community of diverse people coming together with similar objectives and ultimate goals.

*RK Technologies is all about creating opportunities for leadership development, learning, student engagement, and fostering of shared interests. We develop enriching environments and experiences that promote students' knowledge and wellbeing.*



# ABOUT US

# INSTRUCTIONS

- LinkedIn profile improvement (Mandatory)
- All the tasks are needed to complete for Internship Completion Certificate
- Maintain a separate GitHub repository(name as RKTECH for all the tasks and share the link of the GitHub repo in the task submission form(it will be given later through email).
- PEER EVALUATION watch and comment on at least two tasks videos on LinkedIn posted by fellow interns.

# SUBMISSION

- A TASK SUBMISSION FORM will be shared later. Till then please continue your task
- A video need to be created to showcase your work, demo of your effort. The video should start with by your name on first page.
- The video can be hosted on LinkedIn for proof of your work and build credibility among your peers . You can tag RK Technologies in such posts.
- Please add #rktechnologies in each of your task video postings on LinkedIn, Additionally, you can also add hashtags such as #internship #webdevelopment, #datascience, #programming etc depending on your internship domain for more reach and visibility.



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INSPIRING WORDS

**Learning is the only thing the  
mind never exhausts, never  
fears, and never regrets.**

LEONARDO DA VINCI

# ABOUT THE INTERNSHIP



COMPLETION  
CERTIFICATE



Recommendation  
Letter



Acknowledgement  
on our platform



Network  
Opportunity



LinkedIn  
Profile Building



# Internet of Things (IoT)

# TASK LIST

For Internet of Things internship you will need to complete atleast  
3 tasks for successful completion of internship.





# INSTRUCTIONS

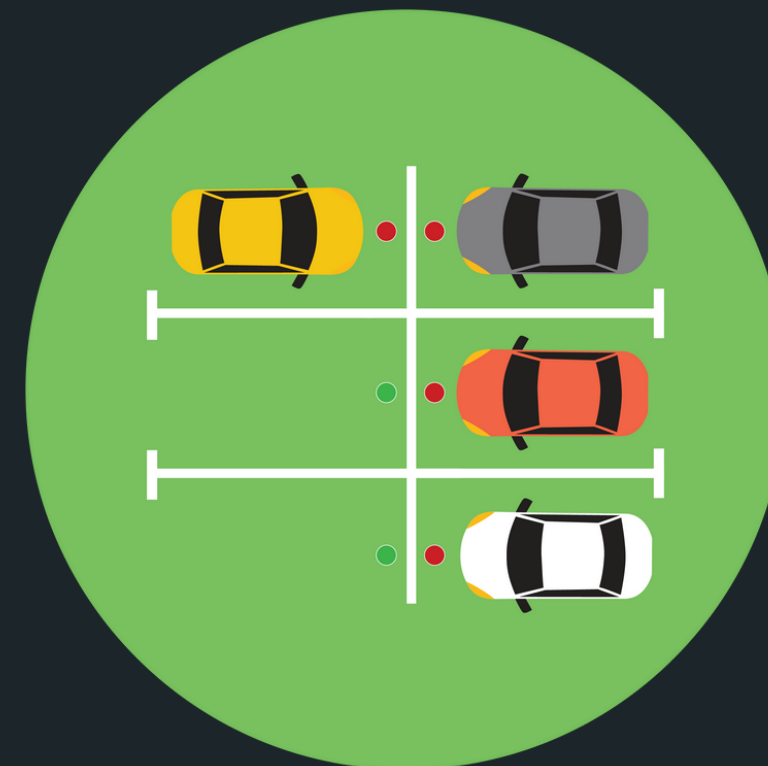
- For Internet of Things internship you will need to complete atleast 3 tasks for successful completion of internship.
- If you do not have any hardware components use online Tinkercad platform which is a free web app for 3D design, electronics, and coding.
- Tinkercad Link : <https://www.tinkercad.com/>
- After successful completion of the project take a video of your output and post it in the linkedin.

# TASK 1



## IOT-BASED CAR PARKING MANAGEMENT

Creating an IoT-based car parking management system with Arduino and basic components involves a structured approach. The primary objective is to optimize parking space utilization through real-time monitoring. Key components include an Arduino board, such as the Arduino Uno, an ultrasonic sensor for car detection, and LEDs to indicate parking space status. Careful consideration should be given to the wiring, specifying the precise pin connections for the ultrasonic sensor and LEDs on the Arduino board.

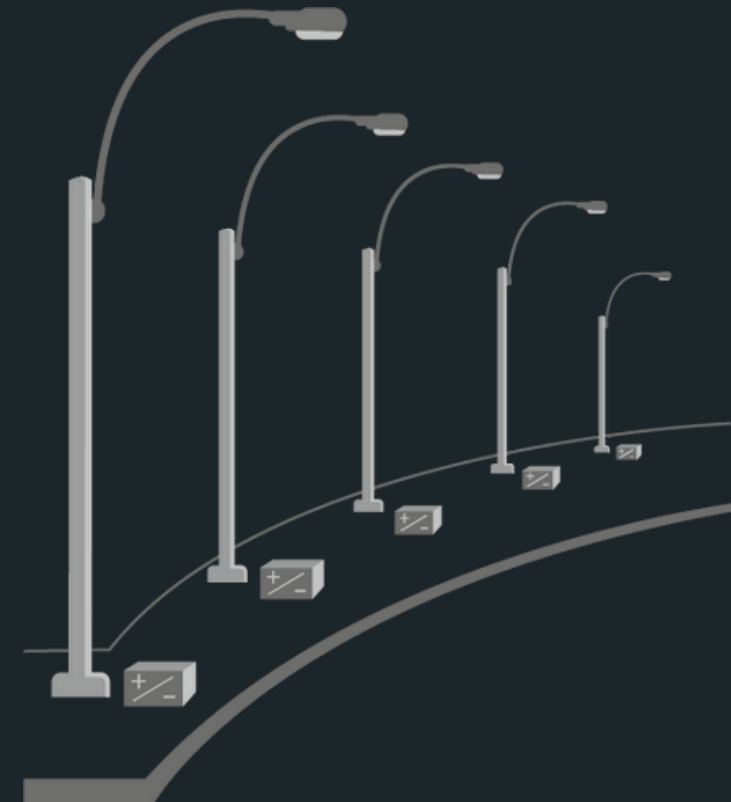


# TASK 2



## AUTOMATIC STREET LIGHT

The objective for the automatic street light system is to improve energy efficiency by turning off the lights during the day and turning them on during the night. Using the LDR sensor we can specify whether it is day or night based on the light. This approach aims to save energy by using street lights only when necessary in darker conditions.



# TASK 3



## AUTOMATIC WATERING SYSTEM

The aim is to design an automatic watering system that utilizes a microcontroller and a moisture sensor to keep plants hydrated. When the soil is dry, the system triggers the watering mechanism, ensuring efficient water usage and maintaining optimal soil moisture for plant growth.





# TASK 4



## SMART WEATHER MONITORING SYSTEM

The goal is to create a smart weather monitoring system that incorporates a temperature sensor. Users can interact with the system to classify the temperature as high, medium, or low, allowing for personalized weather assessments.



# TASK 5



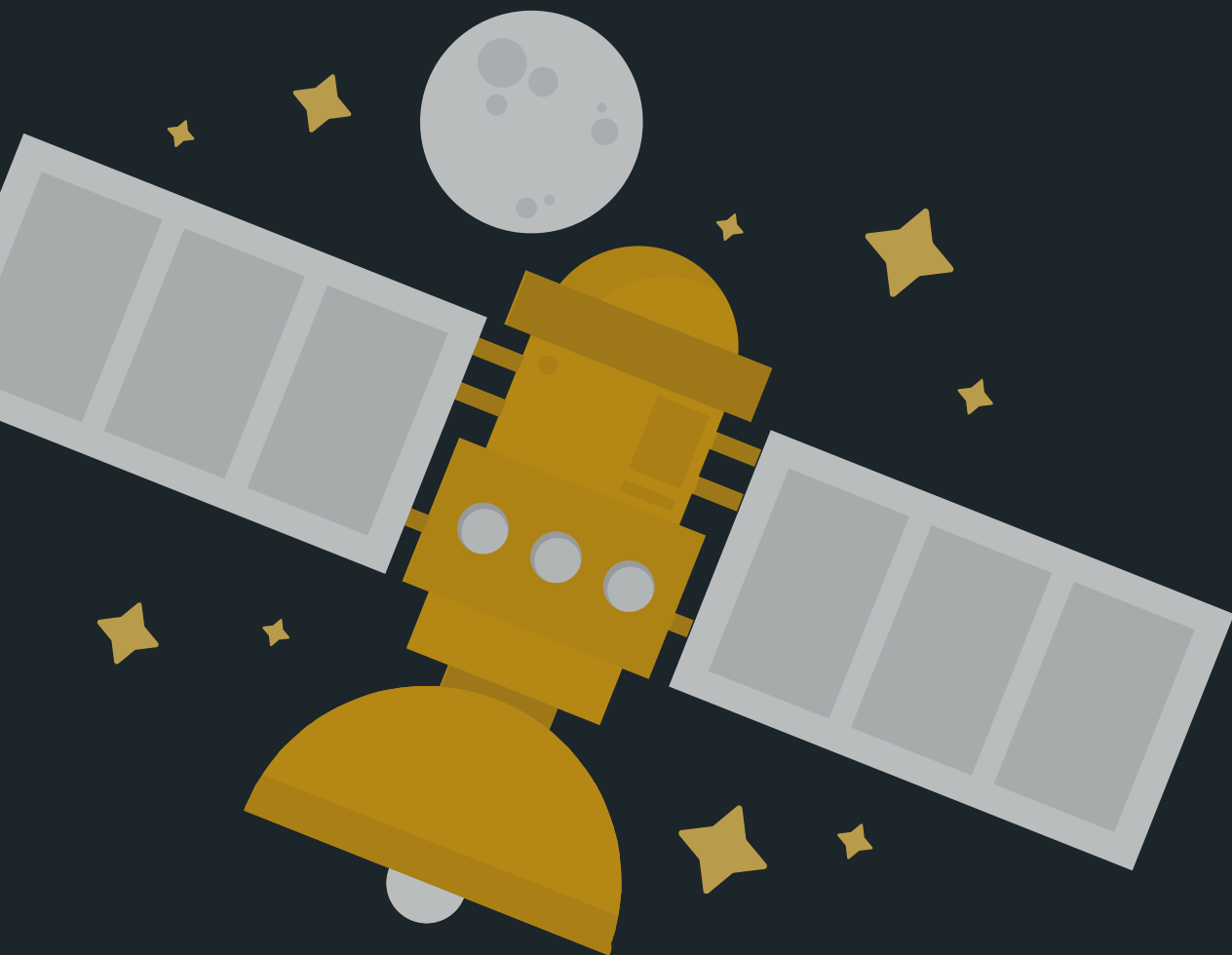
## MOTION DETECTION SYSTEM

The aim is to build a motion detection system using a PIR sensor and a microcontroller. When motion is detected, the system triggers an alert, providing a simple and effective security or notification mechanism.



Motion Detection

# GET CONNECT WITH US



## EMAIL

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## WEBSITE

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## FACEBOOK

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## LINKEDIN

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