

1What We Know So Far

PROJECT NAME

Hazardous Area Monitoring for Industrial Plant powered by IoT

Background Information

The usage of technology in order to monitor the industrial plant and helps in avoiding the industrial hazardous in the area.

PERFORMANCE

METRICES

Key Players

TEAM LEADER  
PRAVEEN M

TEAM MEMBER  
TAVASI B

TEAM MEMBER  
THIRUGNANA SAMPANTHAM N  
ECE

TEAM MEMBER  
GANESH P  
ECE

TEAM MEMBER  
HARINI P  
ECE

ECE

ECE

Project Goals

we are trying to solve the problem of risking human lives in the industrial plants

Success Measures

Alerting the respected authorized person regarding the predicted hazards by our system that risking human lives is reduced.

STAGES OF PROJECT

M1

IDEATION

M2

SOLUTION ARCHITECTURE

M3

TECHNICAL ARCHITECTURE

M4

PROJECT DEVELOPMENT

2Hopes & Fears10 min

Hopes

less manpower, traffic congestion

Reduce operation costs

Timely alerts

Fears

Improper maintenance of beacon devices

Sensor failure

Setting up beacon devices

3Project Goals

Who

working staff in the industries

What

It is about  
Industry hazard

When/Where

It occurs in the entire country

Why

Its our responsibility to protect our environment

Create Measurable Success Metrics

THIS PROJECT WILL CTREATE A BIG IMPACT IN OUR DAY TO DAY LIFE ,ESPECIALLY IN CLEAN SURROUNDINGS WHICH ENSURES HEALTHY SOCIETY

Reducing hazards

Improved in monitoring

Data Collection

Time and Cost Saving

Reduced loss of lives

IMPROVED EFFICIENCY

Transp arency

Sustain ability

Data Analytics

What are your core work capabilities and what do you have some knowledge in that might help in this project or that you would like to expand your knowledge on.

Person	PRAVEEN	TAVASI	THIRUGNANA SAMPANTHAM	GANESH HARINI
Core Capability	SOFTWARE DEVELOPMENT	VISUALIZATION KNOWLEDGE	HARDWARE KNOWLEDGE	TESTING KNOWLEDGE
Desired Capability	EXPERT IN PYTHON	EXPERT IN EMBEDDED	EXPERT IN CLOUD	EXPERT IN AR/VR

Each member of the team is responsible and accountable to uphold our collaboration values as we work together to improve our teamwork and communication as well as the outcome of our patients/clients.

The collaboration values we commit to be accountable include:

- Respect
- Direct communication
- A commitment to complete tasks for which we are responsible
- Kindness
- Appreciation of each other
- Trust

HIGH INITIAL COST

UNEMPLOYMENT

LIMITED MEMORY SIZE FOR SENSOR

WRAP UP

KEY TECHNOLOGIES

CLOUD SYSTEM

GPS TRACKING SYSTEM

PYTHON

OUTCOME OF THE PROJECT:

In the system advocated above, the fusion of sensors, identification technology, and internet connectivity will lead to a uniquely smart disposal trash bin. Together with the cloud, these trash bins would become irreplaceable elements in the waste management cycle where the collection, transportation, storage, and recycling of waste could be automated.