

REMOTE MONITORING OF INDUCTION MOTOR



Done By,
J.U.PAVITHRAN,
M.P.SAKTHIVEL,
R.ARANGANATHAN
Guided By,
Prof.Kandasamy

INTRODUCTION

- Nowadays with the emergence of Internet of Things (IOT), the Monitoring and controlling of machines have become much simpler and can be manipulated from any part of the world
- The proposed idea will focus on monitoring of induction motor through a Web App powered by NodeJS as backend and using Arduino.

OBJECTIVE

- Monitoring the induction motor remotely, facilitates the user to have full control over the application where the motor is put to use.
- So ,the proposed idea will greatly help the Industrial Automation and Home automation applications which uses induction motor as the actuator.

METHODOLOGY

- Embedded Hardware
 - Arduino UNO.
- Actuator
 - Induction motor.
- Middle-end
 - Nodejs webapp.
- Frontend
 - Freeboard Dashboard.
- Sensor
 - Temperature sensor,
Speed sensor, Current
Sensor.

PROPOSED WORK

- DECEMBER-18 Prototype of project.
- January -6 review 2
- January -22 Demo 1
- FEBRUARY -9 Demo 2

PARAMETERS MEASURED

- Temperature of motor.
- Speed of motor.
- Current through motor.
- Acceleration of motor.

REFERENCES

- <http://www.intorobotics.com/build-robot-without-arduino-shield-r3-dc-stepper-motors-controlled>
- <https://www.openhomeautomation.net/internet-of-things-dashboard/>
- <https://www.arduino.cc>