Patent Search

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Inventor

Name	Address	Country	Na
Mr. Cheepuri V V S Srinivas	Associate Professor Dept. of ECE, Vishnu Institute of Technology, Bhimavaram	India	Ind
Mrs. N. Durga Naga Lakshmi	Assistant Professor Dept. of ECE, Vishnu Institute of Technology, Bhimavaram	India	Ind

Applicant

Name	Address	Country	Natio
VISHNU INSTITUTE OF TECHNOLOGY, BHIMAVARAM	Vishnupur, Bhimavaram, Andhra Pradesh	India	India

Abstract:

The invention provides an Android application-based circuit breaker control system designed to enhance the safety of electrical linemen during maintenance and rep operations. The system addresses critical electrical accidents that occur due to poor communication and lack of coordination between maintenance staff and substat personnel during power line repair activities. The proposed system integrates an Android application with an Arduino ATmega 2560 microcontroller to enable secure circuit breakers. The authority to switch the circuit breaker ON or OFF is provided only to the lineman through the Android application, preventing accidental power re while maintenance work is in progress. The activation and deactivation status of the circuit breaker is indicated through a lamp, ensuring clear monitoring of the syst Additionally, the invention can be further enhanced by integrating cloud technology to maintain complete repair records, including details such as the lineman's name location, date, and time of maintenance activities. The system also incorporates an automatic street lighting feature that uses LDR and IR sensors to switch street ligh during nighttime, contributing to energy conservation. The invention offers a reliable, cost-effective, and efficient solution for reducing electrical accidents, improving safety, and supporting smart power management applications.

Complete Specification

Description:Android Application
Provides login authentication and allows the lineman to send ON/OFF commands.

Arduino Controller
Receives commands and controls switching operations.

Bluetooth Module
Enables wireless communication between smartphone and controller.

Circuit Breaker
Disconnects or restores electrical supply.

LDR Sensor
Automatically controls street lights based on light intensity.

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