

DISEÑO Y CONSTRUCCIÓN DE UN PROTOTIPO DOMÓTICO CONTROLADO A TRAVÉS DE INTERNET

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Abstract

In order to reduce risks caused by insecurity and excessive energy consumption (illumination) on a family house the project “Design and Construction of a Domotic prototype controlled through Internet ” has been created and developed, which is conformed by an electronic circuit, a software installed on a server PC, a Website and a scale model.

The electronic circuit controls the lights of the scale model and sends the information gathered from the sensors installed in the doors and windows to the computer so the software can processes it; the software installed on the server PC reads and processes the information that comes from the electronic circuit and the Website; the Website interacts with the user and allows the control of the illumination in the scale model and through the installed sensors in doors and windows it determines the opening or occlusion of the same ones.

The project shows the simulation at scale of a house that is supervised remotely and allows easy supervision without any stranger personal other that its own habitants.

The added value of this project is given by the ability to offer a new remotely control option, comfort, energy savings and security based on the domotic standards with the purpose to achieve a better life quality for the Colombian people.

Finally, the prototype makes possible to create user profiles that the user can activate at any time in order to simulate presence when there's nobody at home.

Keywords: prototype, security, illumination, comfort, software, Web site, domotic, electronic circuit, sensor.