

Abstract

Easy Life project is designed for people who like to be at the forefront of new technologies, in search of quality, comfort, safety in their homes and also with a low cost investment compared to other technologies. Implementing a control and automation system in a house is the result that was achieved by implementing the knowledge and skills acquired in our student stage.

Introduction

Implement a control and automation system to a house-room, which allows efficient management of energy use, which provides safety and comfort, as well as communication between the user and the system through the Blynk platform, in which the team developed the interface for the project so that it could be linked to an ESP8266. This application has an author registration and we are working to patent it.

Materials and methods

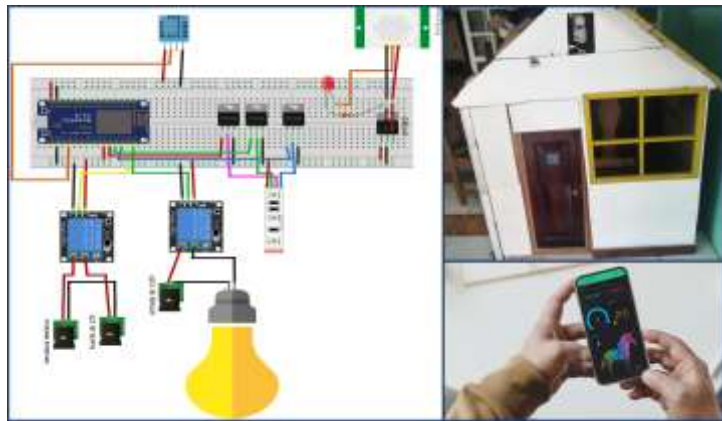


Figure 1 Electronic diagram and monitoring and control App

Results



Figure 2 App designed in Blynk software



Figure 3 Assembly and final project

Conclusions

Based on the results obtained, the Easy Life team created a high-quality product and service, applying the knowledge and skills acquired in the engineering career in mechatronics at the University, we have successfully concluded one more project, the optimization areas when implementing Easy Life are: energy saving, room access security, comfort, monitoring and control of temperature and humidity.

Future of research

As a team, we plan to implement voice control in the future, in addition to improving the security of our product and service, adding more alerts.

Acknowledgments

Special thanks to Maya Universidad Mundo Maya, and the Department of Architecture and Engineering, for the ease of use of the electronics and mechatronics facilities and laboratories, for supporting us with the materials to carry out our Easy Life project.

References

- Domotizados. (2018, 6 febrero). *Costo e implicaciones generales de las casas inteligentes*. Domotizados.co. <https://domotizados.co/costo-e-implicaciones-generales-de-lascasas-inteligentes/>
- Herrera Quintero, Luis Felipe (2005). *Viviendas inteligentes (Domótica)*. Ingeniería e Investigación, 25 (2), 47-53. [fecha de Consulta 13 de diciembre de 2020]. ISSN: 0120-5609. Disponible en: <https://www.redalyc.org/articulo.oa?id=643/64325207>
- El Financiero. (2018, 27 mayo). *¿Cuánto te cuesta hacer tu vivienda inteligente?* <https://www.elfinanciero.com.mx/empresas/cuanto-te-cuesta-hacer-tu-viviendainteligente>
- Graviton. (2018). *Graviton | Precio de Casas Inteligentes en México ¿Cuánto cuesta?* graviton-tech. <https://www.graviton-espacios.com/casas-inteligentes-mexico-precio>
- LG. (s. f.). *LG ThinQ - Hazlo inteligente. Vive Mejor*. LG México. Recuperado 13 de diciembre de 2020, de https://www.lg.com/mx/lgthinq?cmpid=sem_gmc_thinq_2020thinq_brand_google_pe_2020-MX-GENETech-SmartHome-SEAR_K000630