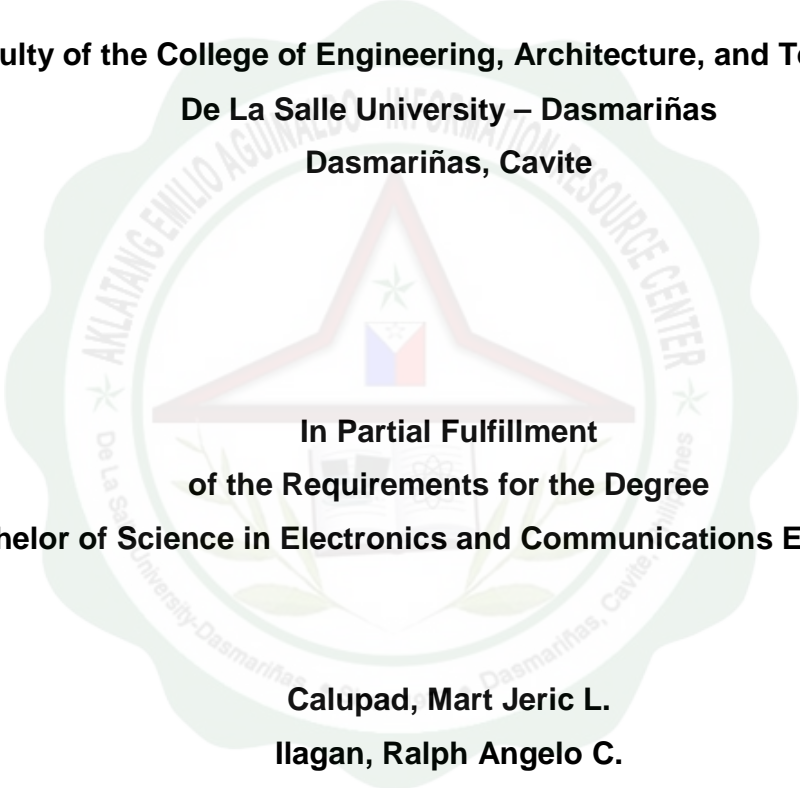


WIRELESS PULSE RATE MONITORING DEVICE

A Project Study

Presented to

**Faculty of the College of Engineering, Architecture, and Technology
De La Salle University – Dasmariñas
Dasmariñas, Cavite**



**In Partial Fulfillment
of the Requirements for the Degree
Bachelor of Science in Electronics and Communications Engineering**

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ABSTRACT

Title: Wireless Pulse Rate Monitoring Device
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This study describes the design of a simple, low-cost microcontroller based wireless pulse rate measuring device with LCD output. Pulse rate of the subject is measured from the finger using light dependent resistor (LDR) sensor and light emitting diode (LED) and the rate is then averaged and displayed on a text based LCD. This aims to minimize the harmful effects of a sudden pulse rate change among hospital patients through continuous monitoring. Besides monitoring, the device is also capable of saving pulse rate samples according to the set time interval of the user. The proposed answer to this problem by the researchers is the design, fabrication and installation of a Wireless Pulse Rate Monitoring Device.

The installation of the prototype exhibits the skills and knowledge that are gained and developed by the ECE students in the University. This also reflects the college's name and the quality of education of De La Salle University – Dasmariñas.