

**DEVELOPMENT OF REMOTE-CONTROLLED ELECTRICAL LIGHTING
SYSTEM IN THE DEPARTMENT OF INDUSTRIAL
ENGINEERING AND TECHNOLOGY**

THESIS

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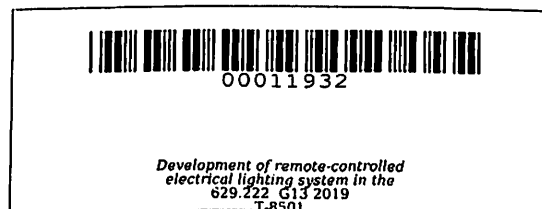
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**DEVELOPMENT OF REMOTE-CONTROLLED ELECTRICAL LIGHTING
SYSTEM IN THE DEPARTMENT OF INDUSTRIAL
ENGINEERING AND TECHNOLOGY**

**Undergraduate Thesis
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ABSTRACT

ABUDA, ROBELYN P. ALCAZAR, ANA MAE L. CRUZAT, MICHAEL B, GATAN, MARK ANDY P. DEVELOPMENT OF REMOTE-CONTROLLED ELECTRICAL LIGHTING SYSTEM IN THE DEPARTMENT OF INDUSTRIAL ENGINEERING AND TECHNOLOGY. Undergraduate Design Project. Bachelor of Industrial Technology Major in Electrical Technology. Cavite State University, Indang, Cavite. May 2019. Adviser: Garry M. Cahibaybayan.

The study was conducted from February to March 2019 in the Third floor of the Department of Industrial Engineering and Technology, Cavite State University, Indang, Cavite. To have a new electrical system and to assess the remote-control switch on all the rooms in the third floor. Specifically, the study aimed to improve the electrical system using a remote-control switch. It is also be helpful for the faculty member to on/off the light using a remote, to satisfy the information needed by the instructor and give a practical demonstration on how to perform a remote-control switch.

The electrical system is composed of the remote-control switch devices, light-indicator, circuit breaker and hand tools. The device of the remote-control are mounted on a small box made by plywood.

Before the evaluation, the authors do their job and do their best to assemble the whole system for the last time before the evaluators came to evaluate the said system. They check its working capabilities and limitations of the system. The project was tested and evaluated in the third floor of Department of Industrial Engineering and Technology Building, Cavite State University, Indang, Cavite.

Based on the results of the evaluation, the Development of Electrical System for the Department of Industrial Engineering and Technology, which is the Remote Control

Switch satisfied all the evaluators and most importantly satisfied all the objectives of this research.

Some further suggestions and recommendations was subjected for further determination of the project's performance.

The total cost of the design project was Php 23,746.25.00

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DEVELOPMENT OF REMOTE-CONTROLLED ELECTRICAL LIGHTING SYSTEM IN THE DEPARTMENT OF INDUSTRIAL ENGINEERING AND TECHNOLOGY

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INTRODUCTION

Modern world is sustaining an electricity that we need in our daily life. Electricity is used for device and technology. In order to use an electricity, we need a conductor or an object that transmit an electricity like wires. Electrical wires refer to insulated conductors used to carry electricity for devices we used. Electrical wiring is commonly used in industrial and commercial establishments, building and malls. Installing wires in residential, commercial or industrial project must be installed in a proper way to avoid accident. Installer of wires must know safety measures, knowledge in electrical principle and has a good workmanship before conducting installation.

Electrical installation provides technical training to meet the demands of Electrical Industry in the need of the individual allowing the students to identify their career