

DEVELOPMENT OF A CLOSED CIRCUIT TELEVISION
AND AUDIO RECORDER SYSTEM FOR
AUTOMOTIVE TECHNOLOGY SHOP

THESIS

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**DEVELOPMENT OF A CLOSED CIRCUIT TELEVISION AND AUDIO
RECORDER SYSTEM FOR AUTOMOTIVE TECHNOLOGY SHOP**

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*Development of a closed circuit television
and audio recorder system for automotive*
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ABSTRACT

MONJE, DIANNE D. and SORIAO JOHN RAENER M. Development of a Closed Circuit Television and Audio Recorder System for Automotive Technology Shop. Undergraduate Design Project. Bachelor in Industrial technology major in Electronics Technology. Cavite State University, Indang, Cavite. May 2017. Adviser: Ms. Ma Fatima Zuñiga.

The study conducted in the Automotive Technology Shop, Department of Industrial Engineering and Technology, College of Engineering and Information Technology, Cavite State University, Indang, Cavite from December 2016 to March 2017. The specific objective of the study is to design, construct, test, evaluate and conduct cost analysis.

The development of a Closed circuit television and audio recorder system for automotive technology shop where in it can monitor and record. The clear and playback of the recent and old activities will monitor the activities for the security reason and purpose. The project design use procedures to make the project design possible. The design project use methods those are canvassing and estimate of component prices, layout and design, construction of the system; installation, rewiring, pre-testing, evaluation, revision, final testing.

The design project consisting CCTV Camera, with built in audio microphone, amplifier, mixer, LED television and speaker that the instructors and the students to improved their security in time goes. The CCTV and audio recorder system was developed based on the objectives and the design and specification of the electronic device was achieved. It is placed under the Automotive Technology Shop where in it can monitor and record all the activities that are happening in the shop. With this device it can prevent misbehaving act on the Automotive Technology Shop.

The evaluators proved that the design project was useful in the shop because the instructors can monitor their students if they are not on the Automotive Technology Shop. The staff and faculties in the Automotive Technology Shop will benefit the design project by means of they can monitor the misbehaving acts like theft of some equipment there. The evaluation results of all panels are 4.50average mean. All the criteria statements garnered an excellent. The design project was accomplished by spending the total amount of P 33,112.00.

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INTRODUCTION

There are still people who talk about CCTV without realizing what the initials it stands for: Closed Circuit Television. Quite simply it is exactly as the name implies system in which the circuit is closed and all the elements are directly connected, including those linked by microwave, infra-red beams and so on. This is what makes it different from broadcast television, which enables any correctly tuned receiver to pick up the signal from the airwaves.

Closed-Circuit Television is a Television system in which signals are not publicly distributed but are monitored, primarily for surveillance and security purposes. Closed-Circuit Television relies on strategic placement of cameras and private observation of the camera's input on monitors. The system is called "closed-circuit" because the cameras,