

DEVELOPMENT OF AN ELECTRONIC NOTICE BOARD FOR CAVITE STATE  
UNIVERSITY - DON SEVERINO DE LAS ALAS CAMPUS

Design Project

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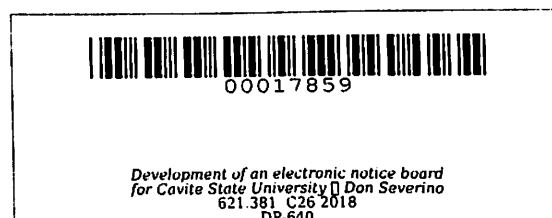
December 2018



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**DEVELOPMENT OF AN ELECTRONIC NOTICE BOARD FOR CAVITE STATE  
UNIVERSITY – DON SEVERINO DE LAS ALAS CAMPUS**

Undergraduate Design Project  
Submitted to the Faculty of the  
College of Engineering and Information Technology  
Cavite State University  
Indang, Cavite

In partial fulfilment  
of the requirements for the degree of  
Bachelor of Science in Electronics and Communications Engineering



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## **ABSTRACT**

**CASABUENA, NIÑO RENZO G. and MACALALAD, CYRILL.**  
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The main objective of the study was to develop an electronic notice board. Specifically, it aimed to construct a television (TV) transmitter and receivers that can broadcast signal within the entire university under ultra-high frequency (UHF) band using a frequency shift- keying (FSK) modulation technique; construct a transmitter and receiver antennas, and determine the cost of the system.

The design project was composed of a TV transmitter and a transmitter antenna which was connected to the antenna port of the transmitter, a laptop that serves as the input, a receiver and a receiver antenna which was connected to the antenna port of the receiver and a television that serves as the output.

The TV transmitter and receivers were evaluated at the Entrepreneurship Building, Animal Science Building, Engineering Science Building and at the College of Nursing Building of the university. The clarity and fidelity of the reception were determined by using a television. A television was used to determine the visual and aural quality of the transmitted video.

The constructed TV transmitter and receivers were connected to the antennas that can transmit signal within the entire university. Even so the transmission was affected by obstruction like trees and/or structures.

For fully utilization of the project, the institution must secure the necessary permits and registration mandated by the National Telecommunications Commission.

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## **INTRODUCTION**

Dissemination of information is effective when the general public is updated with the upcoming or on-time events and announcements of any organization or institution. One of the reasons regarding the poor dissemination of information was sticking notices day-to-day in view of the fact that it requires a separate person to take care of this notices display.

Cavite State University (CvSU) - Don Severino de las Alas Campus consisting of nine (9) colleges with thousands of students and professors, staff, and employees. The university has a total land area of 72 h. and having a wide area makes disseminating of important events and announcements a problem.