

**RF ID TECHNOLOGY IMPLEMENTATION TO EDUCATIONAL TOOL USING
EDUCATIONAL BLOCK READER FOR PRE-SCHOOLER**

**A Project Study
Presented to**

**the Faculty of Engineering
De La Salle University – Dasmariñas**

The seal of De La Salle University - Dasmariñas is a circular emblem with a scalloped border. It features a central shield with a red triangle at the top, a white triangle at the bottom, and a blue and red triangle in the middle. The shield is flanked by green laurel branches. The text "AKLATANG EMILIO AGUIRALDO INFORMATION RESOURCE CENTER" is written around the top inner edge, and "De La Salle University - Dasmariñas" is written around the bottom inner edge. The year "Since 1977" is also present at the bottom.

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

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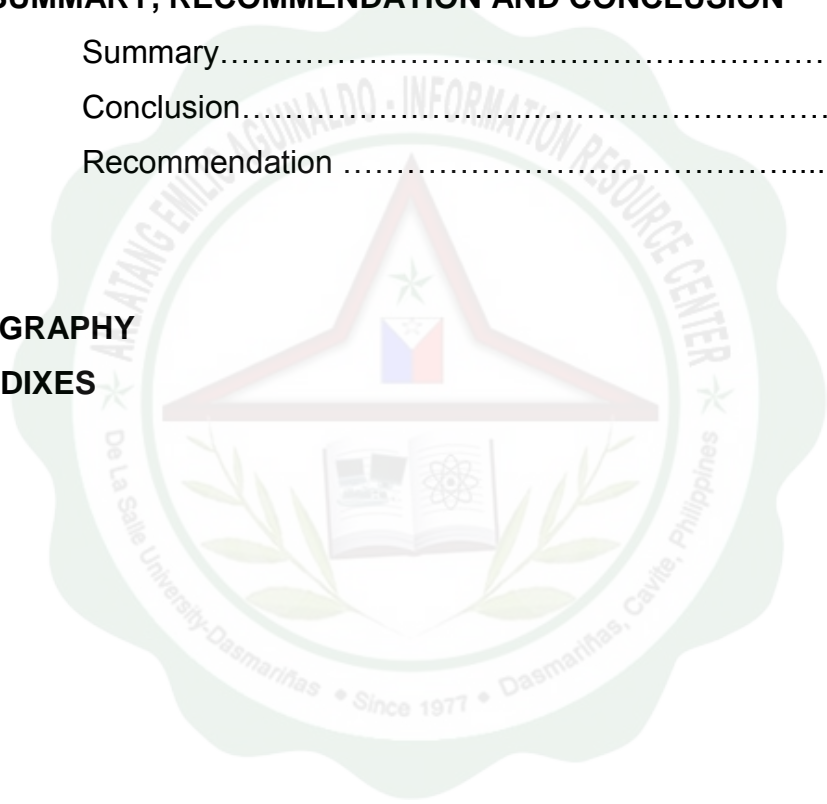
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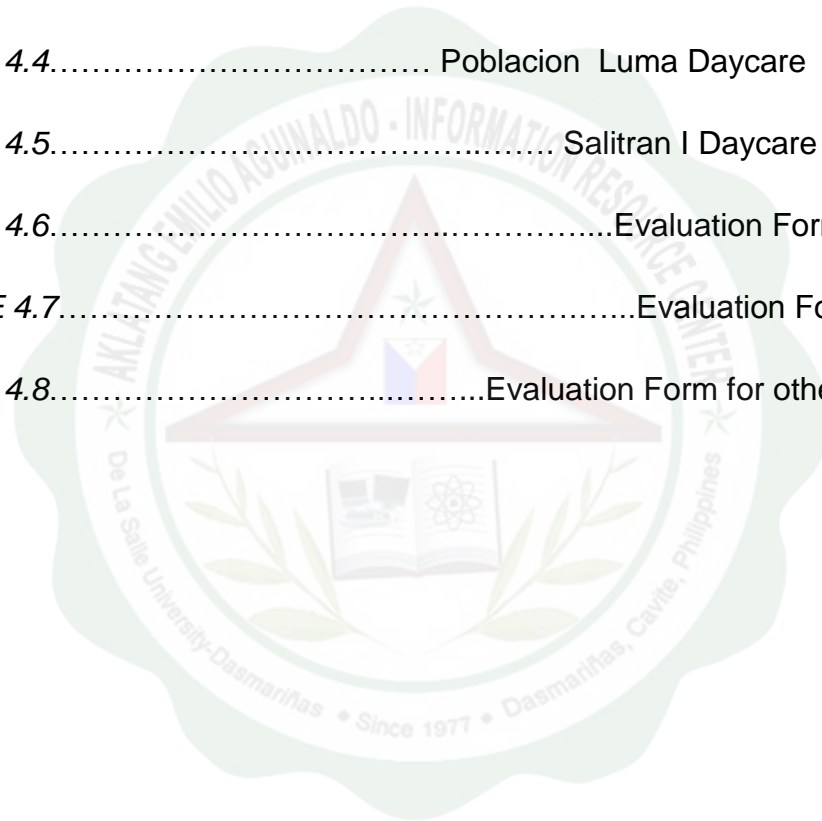
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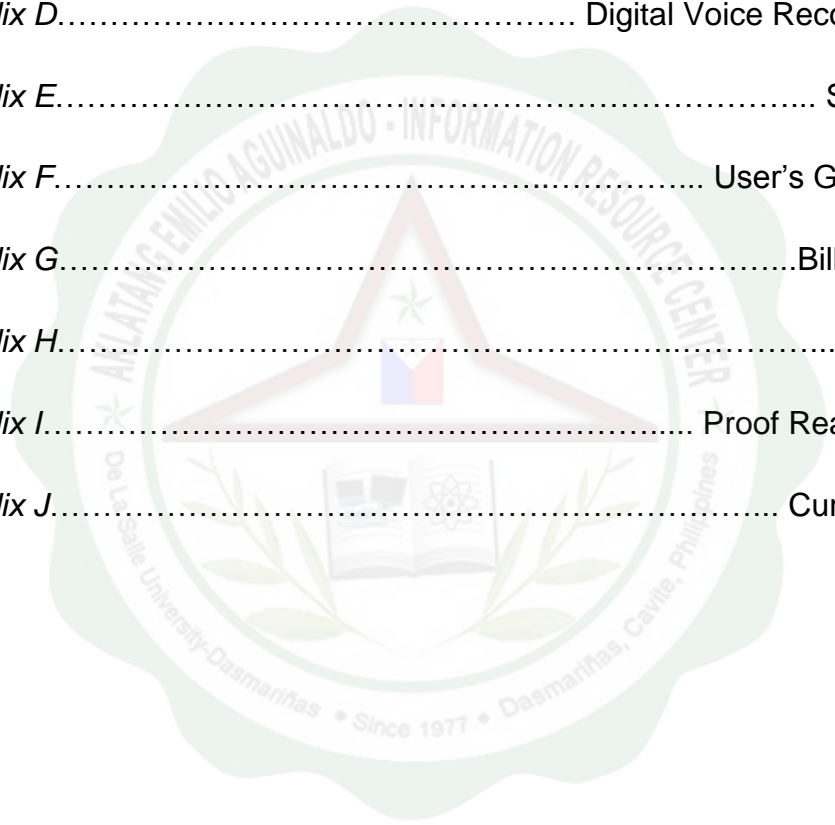


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ABSTRACT

Title: RF ID TECHNOLOGY IMPLEMENTATION TO EDUCATIONAL TOOL USING EDUCATIONAL BLOCK READER FOR PRE-SCHOOLER

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This study was conducted in order to apply the present innovation and technology like the Radio Frequency Identification in the educational development of the preschoolers. By using this device, a child can study on his own be able to learn the alphabet, numbers and shapes in a classroom. It is a new and interesting learning experience for a child using an attractive device. By simply placing the chosen block labelled with numbers, shapes and alphabet near to the reader, the device automatically sounds off the name of the letter, number or immediately.

Applied Research was employed in the study. The following materials were used in the study; PIC16f877, Voice Kit, RFID Tag, RFID Reader, Power Supply, Speaker and other basic electronics materials. Based on the result of the study, it showed that the RF Technology, hi tech as it sounds, may be used in a simple device that even a preschooler can benefit. The RF Educational Block Reader for Pre-Schooler is a simple device that even a child can operate. It is an effective tool to teach the students with basic knowledge while enjoying the process of learning at the same time.

On the basis of the findings, the following conclusions are drawn: The RF Educational Block Reader is effective for the learning development of the children especially the preschoolers who are really fond of playing. It is one of the productive applications of RFID whose emphasis is on education development and enhancement. In the light of the foregoing conclusion, it is recommended that at first, the program should be changed or revised in order to input additional blocks. Secondly, a power supply must be added in order to make the supplementary speaker be portable when battery is used. And lastly, the voice clarity must be enhanced to high quality because the clarity of the voice in some blocks is not that audible.

