

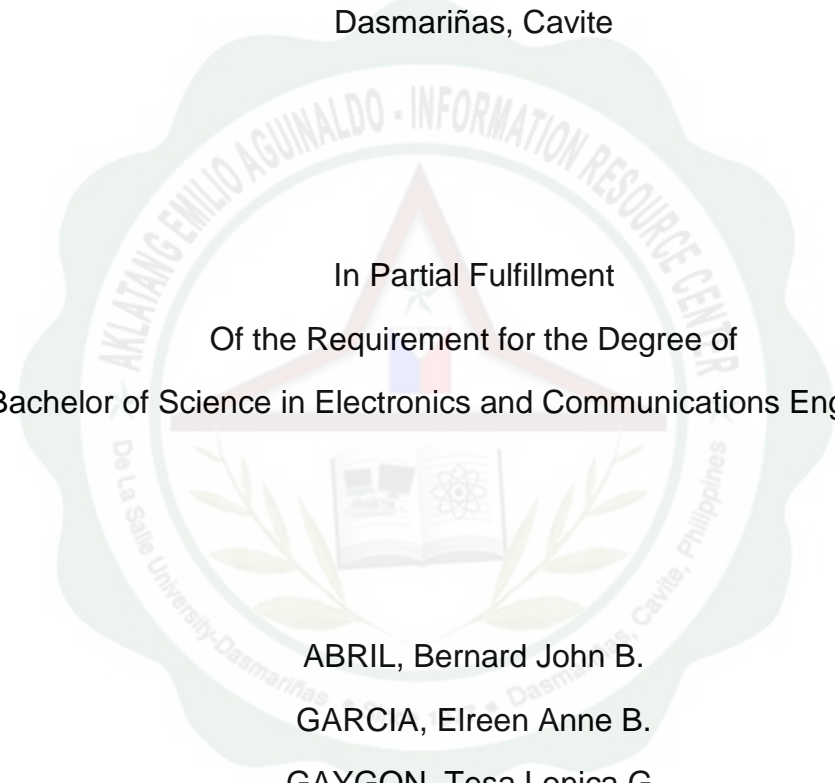
AUTOMATED MONITORING AND CONTROLLING SCHEME FOR INDOOR HYDROPONIC SYSTEM

Presented to

The Faculty of the College of Engineering, Architecture and Technology

De La Salle University - Dasmariñas

Dasmariñas, Cavite



In Partial Fulfillment
Of the Requirement for the Degree of
Bachelor of Science in Electronics and Communications Engineering

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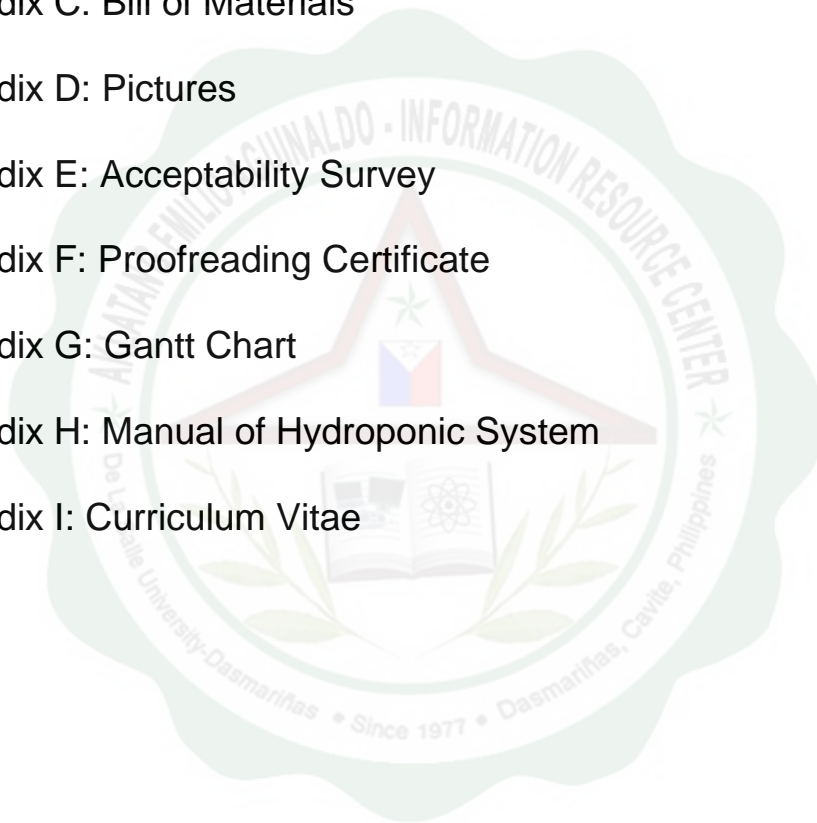
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ABSTRACT

Title: Automated Monitoring and Controlling Scheme for Indoor Hydroponic System

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Hydroponics is a form of plant breeding where the plants' roots are immersed in water with nutrient solution. This system provides a better and easier way of planting. Its main concept is to replace soil as growing media and replacing it with water. The mixture solution provides the nutrients for the plants. With the crops' roots immersed in the solution, the nutrients are fed directly to the plants, allowing it to grow bigger, faster and healthier. Nutrients should always be present in the mixture for the crops. This also is very useful in places with limited land space for plant breeding.

The researchers focused on the key features of the hydroponics system and plant breeding. Because nutrients are significant to plants, this is one of the

things that the proponents considered, along with the basic needs of plants like air and light.

The proponents aim to monitor the nutrients, air and supply of the crops planted in the system. With these things properly implemented on the plants, it is expected to have a better growing crop. That is why the proponents have come up with the study entitled “Automated Monitoring and Controlling Scheme for Hydroponics System”.

