Department of Electrical and Computer Engineering
North South University

Senior Design Project

Title: Automated Cattle Farm

Submitted By

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Supervisor

Dr. K. M. A Salam

Professor

Department of Electrical and Computer Engineering

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Fall 2020

DECLARATION

This is to certify that this Project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Students' names & Signatures

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Name: Md. Asif-Ud Doula

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Name: Md. Shafin Ul Haque

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APPROVAL

We, Md. **Asif-Ud Doula 1620368043**, **Md. Shafin Ul Haque 1620924043** and **Md. Hasinur Rahman 1612016043**, members of EEE/ETE: 499 (Senior Design) from the Electrical and Computer Engineering department of **North South University**; have worked on the project titled **"Automated Cattle Farm"** under the supervision of Dr. K. M. A. Salam as a partial fulfillment of the requirement for the degree of Bachelors of Science in Electrical & Electronic Engineering and has been accepted as satisfactory.

Supervisor's Signature

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Dr. K. M. A. Salam
Professor

Department of Electrical & Computer Engineering

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Chairman's Signature

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Dr. Rezaul Bari
Associate Professor & Chairman

Department of Electrical & Computer Engineering

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Dhaka, Bangladesh.

ACKNOWLEDGEMENT

By mercy of the Almighty we have completed our senior design capstone project entitled “Automated Cattle Farm”.

Foremost, we would like to express our sincere gratitude to our advisor Dr. K. M. A. Salam for his continuous support in our capstone project progress throughout the whole 499A and 499B, for his patience, motivation, enthusiasm, and immense knowledge. His guidance helped us in all the time of research, writing and completing of this project.

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We are also very grateful to one of our dearest friends, [you can put any name], for his help in this project.

Last but not the least, we would like to thank our family as their inspiration and guidance kept us focused and motivated.

Abstract

In the twenty-first century, automation is the popular trend. When we hear the phrase automation, a few things spring to mind. For example, reducing human stress, lowering labor costs, and so on. First, when someone hears the phrase "automated cattle farm," they will not believe it is conceivable. However, if one breaks down the tasks that occur within the farm step by step and attempts to imagine the scenario after automation, he or she begins to believe in the potential. We created a temperature control system for this project. If the temperature rises or falls, the fan and lamp will turn on or off automatically. Food will be served to the cattle through a feeding system. We have a washing and scraper system that will clean the farm's floor. We have a web application. The farm owner will be able to observe what is happening inside the farm and control it remotely from anywhere on the planet. The website has an information part that will provide information such as vaccination dates, possible vaccines to give cattle, and so on.