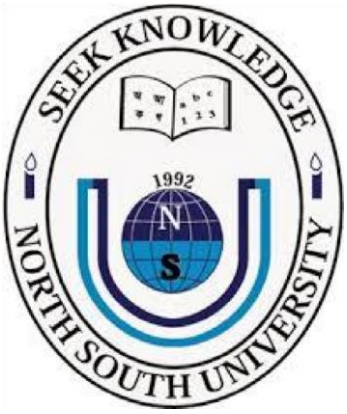
North South University



Department of Electrical and Computer Engineering

Senior Design Project Report

CSE499

Project Topic: Smart Green House Farming using IOT

Group : 03

Group Members :

Shawon Das – 1712591642

Smita Roy Jyoti – 1711615042

Submitted to :

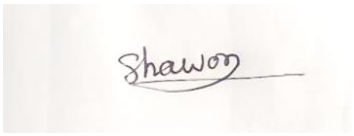
Dr. Atiqur Rahman

Associate Professor
Department of Electrical and Computer Engineering
North South University, Dhaka, Bangladesh

DECLARATION

We, hereby, declare that the work presented in this report is the outcome of our senior design project under the supervision of Dr. Atiqur Rahman (Associate Professor), Department of Electrical and Computer Engineering, North South University, Dhaka, Bangladesh. The work was spread over a span of one of the final year courses, CSE499, in accordance with the course curriculum of the Department.

Declared By:



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Name: Shawon Das

ID: 1712591042

Declared By:

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Name: Smita Roy Jyoti

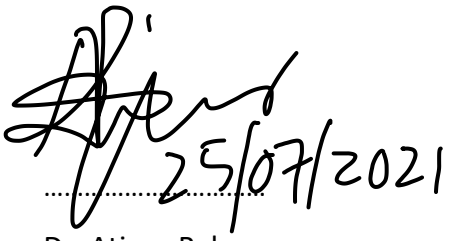
ID: 1711615042

Approval

The project report on *Smart Farming has* been submitted by Shawon Das (ID # 1712591042) and Smita Roy Jyoti (ID#1711615042) of the Department of Electrical and Computer Engineering, North South University, Bangladesh in partial fulfilment of the requirement for the degree of Bachelor of Science in Electrical and Electronics Engineering on May, 2021 and has been accepted as satisfactory.

Approved By:

Supervisor:



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Chairman:

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ACKNOWLEDGEMENT

We are students of Degree 4th year, Computer Science and Engineering, have successfully completed the project under the guidance of esteemed faculties of this very institute.

We would like to thank Dr. Atiqur Rahman (Associate Professor, Dept of ECE) for his valuable guidance and advice in completion of our project and providing us all possible assistance. He has been extremely motivating and helps us during the project work. We are also grateful to him for providing us necessary books and journals.

Abstract :

The fundamental idea is to increase the growth of different varieties of crops with good quality in a closed environment usually a Greenhouse. The proposed system can monitor the changes in factors like temperature, humidity, soil moisture by integrating the sensor elements. Sensor values inserted on Ubidots web site that can be used to analyze agricultural data. The web site is also used to monitor and control the parameters, weather information etc. It will reduce the labour cost, time and also can increase the growth of any kind of homespun and foreign crops.

Keywords :

IOT, Green House, Sensors, Monitor, Control, Arduino Ide, Ubdots