



Senior Design Project

The future of industrial protection and monitoring automation system in the Era of the Internet of Things

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Declaration

This is to declare that no part of this report or the project has been previously submitted elsewhere for the fulfillment of any other degree or program. Proper acknowledgement has been provided for any material that has been taken from previously published sources in the bibliography section of this report.

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APPROVAL

We, **Sabbir Hassan Suvo (1512421643)**, **Fahim Hossain talukdar (1420925043)**, **Washim Sarker Shuvo (1511540643)** & **Md. Nahid Enam (1320536043)** members of **EEE/ETE: 499** (Senior Design) from the Electrical and Computer Engineering department of **North South University**; have worked on the project titled “**The future industrial communication ;Automatic networks in the era of the internet of things and industry**” under the supervision of **Dr. K. M. A. Salam** as a partial fulfillment of the requirement for the degree of Bachelors of Science in Engineering and has been accepted as satisfactory.

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Abstract

In the 4th industrial revolution, automation of industry is increasing day by day. For connecting with automation Internet of things (IoT) is a new technological revolutionary name. IoT is playing a massive role in this era to monitor industry properly and also for quick protection automatically. The key idea of our project is to protect the industry from quick damage and also warning the user by IoT server. Besides, it will also prevent the resources and people's life from unwanted damages. This was also our another priority to make people's life more secure who works in those industries. In this project, we used thingspeak built in IoT server. When sensor can detect any problem, our Arduino Uno microcontroller will upload the data to the server through wi-fi and server will show the warning update of that sensor automatically. With this our another output will go into 20*4 Lcd display which will show the update of 4 sensors continuously. The system was designed in such a way so that it can take care need of industry and give industries protection system a new life