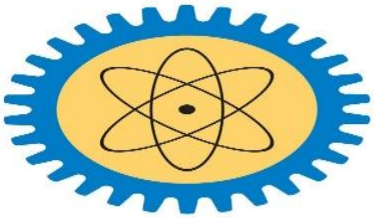

BUSITEMA UNIVERSITY

Pursuing Excellence

FACULTY OF ENGINEERING

DEPARTMENT OF COMPUTER ENGINEERING

FINAL YEAR PROJECT REPORT

TOPIC: IOT BASED AIR POLLUTION MONITORING SYSTEM IN FACTORY

BY

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BU / UP / 2017 / 369

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A final year project proposal submitted to the department of computer engineering as a partial fulfilment of the requirements for the award of a bachelor's degree in computer engineering.

MARCH, 2022

Declaration

I Okia Ezekiel Registration Number BU/UP/2017/369 a student of Busitema University, Main Campus hereby declare this project is my original work except where explicit citation has been made and this paper has not been presented to any institution of higher learning for the award of academic paper.

Sign…….

Date…….

Bachelor of computer Engineering,

Department of computer Engineering,

Busitema University.

Approval

This is to certify that the project under the title “IoT based air pollution monitoring system in factory” has been done under my supervision and is now ready for examination.

Sign……..

Date……..

MR. ALUNYU ANDREW

Department of computer engineering

Faculty of Engineering,

Busitema University.

DEDICATION

I dedicate my sincere gratitude to my parents Mr. PAUL OSAURO and Mrs. AMUDU JANE for their inexhaustible love, support and courage in the preparation of this report.

I am extremely grateful for numerous suggestions and complimentary opinions received on this report.

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It would have been impossible for me to prepare this report without the encouragement, clear guidance, support and co-operation of many great generous, hardworking and co-operative teams I had for my surrounding at Busitema University, I would with all my heart, like to thank these individuals and organizations for their gracious contributions towards this project. A lot of my sincere thanks goes to my very skilled instructor Mr. Alunyu Andrew, Mr. Matovu Davis, Mr. Arineitwe Joshua who worked tirelessly to see that I acquire the necessary skills throughout the entire time of this project. Special thanks to my parents, Mr. Paul Osauro and Mrs. Amudu Jane for the financial ability to make me a great scholar. Iam indebted to my university supervisor Mr. Alunyu Andrew whose directions and guidance has enabled me to successful reach this far of my project as well as writing the report. Finally, I acknowledge my fellow students with whom I share a professional experience with in class.

I would like to thank the Almighty God for letting me through my studies and make this report a reality.

List of Acronyms

IDE: Integrated Development Environment

CO_2: carbon dioxide

NO_2: nitrogen dioxide

CO: carbon monoxide

LCD: Liquid Crystal Display

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ABSTRACT

The level of pollution is increasing rapidly due to factors like industries, urbanization, increasing in population, vehicle use which can affect human health. IOT Based Air Pollution Monitoring System is used to monitor the Air Quality over a web server using Internet. It will trigger an alarm when the air quality goes down beyond a certain level, means when there are sufficient amount of harmful gases present in the air like CO_2, CO and NO_2 gases, it will monitor dust as well. It will show the air quality in PPM on the LCD and as well as on webpage so that air pollution can be monitored very easily. The system uses sensors for monitoring Air Quality as it detects most harmful gases and can measure their amount accurately.

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