



FINAL YEAR PROJECT REPORT

IOT BASED SMART ACOUSTIC AND RENEWABLE ENERGY HARVESTING SYSTEM

**In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)**

By

**MISBAH BATOOL
MARIAM NADEEM**

**65208(BSCS)
65279(BSCS)**

SUPERVISED

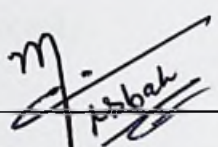
BY

BILAL MUHAMMAD IQBAL

**BAHRIA UNIVERSITY (KARACHI CAMPUS)
SPRING-2023**

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We hereby declare that this project report is based on my/our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Signature : _____

Name : Misbah Batool

Reg No. : 65208

Signature : MARIAM_____

Name : Mariam Nadeem

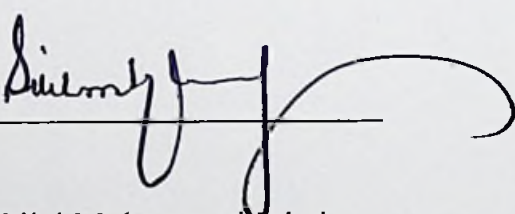
Reg No. : 65279

Date : 04-07-2023

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We certify that this project report entitled **"IOT BASED SMART ACOUSTIC AND RENEWABLE ENERGY HARVESTING SYSTEM"** was prepared by **Misbah Batool 02-134192-019** and **Mariam Nadeem 02-134192-107** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of **Computer Science** at Bahria University.

Approved by,

Signature : 

Supervisor: Sir. Bilal Muhammad Iqbal

Date : 04-07-2023.

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In addition, We are aiming to implement our Research according to Sustainable Development Goal (SDG) Goal 7 to ensure access to affordable, reliable and modern energy services. We would also like to express our gratitude to our loving parents who had helped and given us encouragement.

IOT BASED SMART ACOUSTIC AND RENEWABLE ENERGY HARVESTING SYSTEM

ABSTRACT

In our day-to-day life power and fuel crisis is one of the major problems that we are facing now. In that case, renewable resources could be the best solution as it reduces the scarcity of electrical energy across the globe. It prevents producing atmospheric emissions. As the presence of renewable resources varies with climate and to gain the maximum energy we tend to integrate acoustic and both solar and wind energy. On account of implementing our system, Artificial Intelligence will penetrate allowing the personal space of IoT. Real-time insights into every asset and process. It is less dependable on fuel. Energy is considered to be one of the main drivers of economic and social development. By 2050, we will see a doubling of energy demand with the share of electricity increasing faster than the primary energy supply. The resource is not increasing but accelerating changes in policy, technological innovation, and user expectation are making energy market increasingly complex. For overcoming this problem we have to monitor and control the energy properly. This project creates a way of properly monitoring and controlling energy. The major advantages are cost-effectiveness and affordable installment. The application of this project is in the household, traffic control, and spitals. Every component of an industry should be controlled by that which may save components from blasting or damaging. This project saves the energies, so we can keep a safe world the next generation. So it is very significant to have a system that can ensure the proper consumption of energy and also can also keep control from anywhere.

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