

**Dept. of Electrical and Computer Engineering
North South University**



Senior Design Project

**Implementation of Cellphone Detector with Signal
Jammer**

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Spring 2022**

LETTER OF TRANSMITTAL

03 March 2022

To

Dr. Mohammad Rezaul Bari

Associate Professor and Chairman,

Department of Electrical and Computer Engineering,

North South University, Dhaka.

Subject: Submission of Capstone Project on “Implementation of Cellphone Detector with Signal Jammer”.

Dear Sir,

With due respect, we would like to submit our **Capstone Project Report** on “**Implementation of Cellphone Detector with Signal Jammer**” as a part of our BSc program. This project has been done to restrict the use of cellphones in restricted areas and to increase security. In order to do so a device has been set up which contains a cell phone detector with signal jammer. This device “Cellphone detector with signal jammer” is designed to help in security. The hardware used in this device are user-friendly, easy to use. Integrating features of the hardware has been developed and the presence of every block is explained and programmed effectively for its successful implementation. We tried our level best to make the report meaningful and informative.

The Capstone project was very much valuable to us as it helped us to gain experience in the

practical field. It was a great learning experience for us. We tried to the maximum competence to meet all the dimensions required from this report.

We will be highly obliged if you are kind enough to receive this report and provide your valuable judgment. It would be our immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

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APPROVAL

The capstone project entitled “Implementation of Cellphone Detector with Signal Jammer” by Asif Hasan Akash (ID: 1731261043), Tamzidul Haque Riaz (ID: 1731703643), Shibly Ahmed (ID: 1731489043), Md. Mahedi Hasan (ID: 1731343043), and Md. Eliush Molla (ID: 1731041043) is approved in partial fulfillment of the requirement of the Degree of Bachelor of Science in Computer Science and Engineering on 3 March 2022 and has been accepted as satisfactory.

Supervisor:



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DECLARATION

This is our truthful declaration that the “**Capstone Project Report**” we have prepared is not a copy of any “**Capstone Project Report**” previously made by any other team. We also express our honest confirmation in support of the fact that the said: “**Capstone Project Report**” has neither been used before to fulfill any other course-related purpose nor it will be submitted to any other team or authority in the future.

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ACKNOWLEDGEMENT

First of all, we wish to express our gratitude to the Almighty for giving us the strength to perform our responsibilities and complete the report.

The capstone project program is very helpful to bridge the gap between theoretical knowledge and real-life experience as part of the Bachelor of Science (BSc) Program. This report has been designed to have practical experience through theoretical understanding.

We also acknowledge our profound sense of gratitude to all the teachers who have been instrumental in providing us with the technical knowledge and moral support to complete the project with full understanding.

It is imperative to show our appreciation for our honorable faculty member Dr. Dihan Md. Nuruddin Hasan for his undivided attention and help to achieve this milestone. Also, our gratitude is divine to the North South University, ECE department for providing us a course such as EEE499 in which we could really work on our project and materialize it the way we have dreamt of.

We thank our friends and family for their moral support to carve out this project and always offer their support.

Abstract:

This research have been done to restrict the use of cellphones in restricted areas and to increase security. Sometimes people go to the extent of using mobiles in prohibited areas, due to such acts the security policies of those places are hindered and the effects might be hazardous. Therefore to find an answer to that problem with the help of this study a solution can be derived. A device can be set up which will consist of a cell phone detector with signal jammer. In the current market, basically these are two separate devices i.e., a cell phone detector and a signal jammer but they don't serve the purpose completely as the detector can only detect signals but they can't block them whereas the jammer can only jam the signals but they cannot detect it, and we cannot let the jammer turned on continuously as it may harm the environment. But if we combine these two devices and make it a single handy device then our purpose can be served.

General Terms:

Security, Jammer, Robi network, Airtel Network, Banglalink Network, Grameen-phone Network.

Keywords:

Mobile Phone Detector, Frequency jamming Feature, Buzzer.

INTRODUCTION:

Examination malpractices have consistently remained a bane of Nigerian educational system. Most foreigners say that the academic certificates being issued to graduates in Nigeria are no more valuable than the pieces of paper on which they are printed (Nicholas, 2011). Examination malpractice is an illegal behavior by a candidate before, during or after the examination so that such can attain success easily and cheaply. Hence, the worth and standard of the examination is violated. Examination malpractice is a cankerworm that portends grave dangers for the nation. Examination malpractice has been carried out successfully in many ways, part of which is the bringing in of micro written notes, the use of storage devices and communication devices. Communication devices happen to be the most effective means of malpractices today in higher institutions of learning. In a brief history, it was discovered that the rapid proliferation of mobile phones at the beginning of the 21st century to near ubiquitous status eventually raised problems such as their potential use to invade privacy or contribute to rampant and egregious academic cheating. In addition, public backlash was growing against the intrusive disruption cell phones introduced in daily life. While older analog cell phones often suffered from chronically poor reception and could even be disconnected by simple interference such as high frequency noise. Increasingly sophisticated digital phones have led to more elaborate counters.