**THE CALL**

**DETECTOR**

|  |
| --- |
| **15**  **M**  **A**  **Y** |

CAAP Project Report

**2022**

20CS028 INSHARAH SULTANA

20CS038 AQSA RAFIQUE

20CS056 YASEEN AHMED

PREPARED BY:

20CS010 HASEEBULLAH CHANNA

20CS068 ADEENA TARIQ

20CS002 AIRAF ABRO

**PRESENTED TO:**

MA’AM REEM

**TABLE OF**

**CONTENTS**

# 01

Introduction

# 02

Connection With The Field

# 03

Brief Description

# 04

Snapshots

# 05

Conclusion

## 

## INTRODUCTION

The project “The call Detector” is a simple circuit based on computer architecture used to detect the activation of a mobile phone such as incoming and ongoing phone calls, messages, and things of that nature. Mobile phone detectors can be used for spying on someone and for unauthorized video transmission. With the rising security issues, the demands for such types of detectors have been increasing, so this would be useful for that purpose.

## CONNECTION WITH THE FIELD

The project “The call detector” is connected to our field of computer systems in the following ways:

* The IC we have used in our circuit is the basic component of the computer processor.
* We have used resistors that simply a hardwired processor possesses.
* The capacitors involved in the circuit work similarly as a computer’s processors.
* Jumper wires are used to connect components on your breadboard.

## BRIEF DESCRIPTION

The [**cell phone detector**](https://phantom-technologies.com/cell-phone-detector/) is a technological device that detects the presence and existence of cell phones in an area or within a stipulated range of operation. Once this cell phone detector detects the presence of a cell phone, the phone detector system raises the alarm and speak to the mobile phone user to switch it off. The cell phone detector has different ways of alerting the user of the phone; it does this by either sending an alert message, a single beep of the detector or ringtone. The operator of this device can record a voice message or write a customized text message that will be sent to every phone detected. This is a great way to prevent the use of cell phones in examination halls, worship sites, private rooms, etc. The use of the cell phone detector is also one of the ways of [**managing cell phones in the classroom**](https://phantom-technologies.com/managing-cell-phones-in-the-classroom/).

The cell phone detectors are not only meant to be used to discover mobile devices that are in the conversation mode alone, but they can also be used for those that are in standby mode or switched on generally. Since it is not always possible to check everybody entering sensitive places like worship places, libraries, or any strategic site, the use of a cell phone detector will be important in such places. They can be used as rescue devices, and the authorities will use them to clear out all the unwanted things.

The signal power is stored in the capacitor through the wire. The resistor and capacitor connection acts as a filter to select the desired signal (the RF frequency at which the phone operates). The resistor and capacitor value are chosen such that the particular frequency is detected. The operational amplifier amplifies the capture signal because it is too low and a proper signal level needs to be applied to the base of the transistor for it to turn ON. So the output signal from the OPAMP with a 0.7 V drop (The forward voltage drop across the diode in the transistor) forward biases the LED and turns it ON.

### SNAPSHOTS

**WE THANK YOU FOR YOUR ONGOING**

**SUPPORT OF OUR**

**PROGRAMME COMPUTER ARCHITECTURE & ASSEMBLY PROGRAMMING**

## CONCLUSION

As we know the future is based on IT and it is very difficult to check each and every person manually due to security alert this is the best thing we got to detect the mob without human resource. This is a security helping component hope it would help the security departments and other agencies.

[20cs068@students.muet.edu.pk](mailto:20cs068@students.muet.edu.pk)

[20cs010@students.muet.edu.pk](mailto:20cs010@students.muet.edu.pk)

[20cs002@students.muet.edu.pk](mailto:20cs002@students.muet.edu.pk)

[20cs028@students.muet.edu.pk](mailto:20cs028@students.muet.edu.pk)

[20cs038@students.muet.edu.pk](mailto:20cs038@students.muet.edu.pk)

[20cs056@students.muet.edu.pk](mailto:20cs056@students.muet.edu.pk)