Mobile Phone Detector based on Op Amp

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Contents

What's all about?

Design & Implementaion

Limitations

What's Next ?

Introduction

Concept and Background

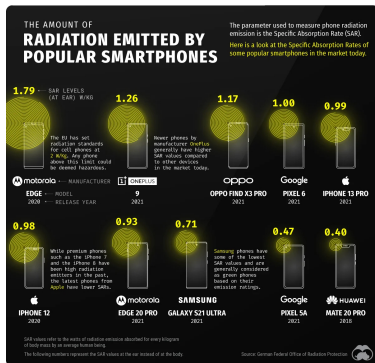# What's all about?

Problem

- Mobile phones are great tools, but they are bnned in some places.
- Detecting phones being around is important.
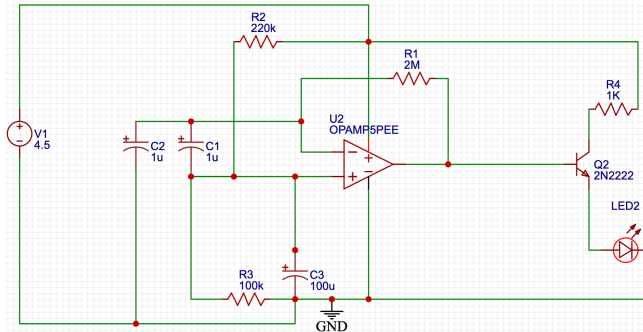- Providing easy-to-use tools to detect phones.

What's Being Detected ?
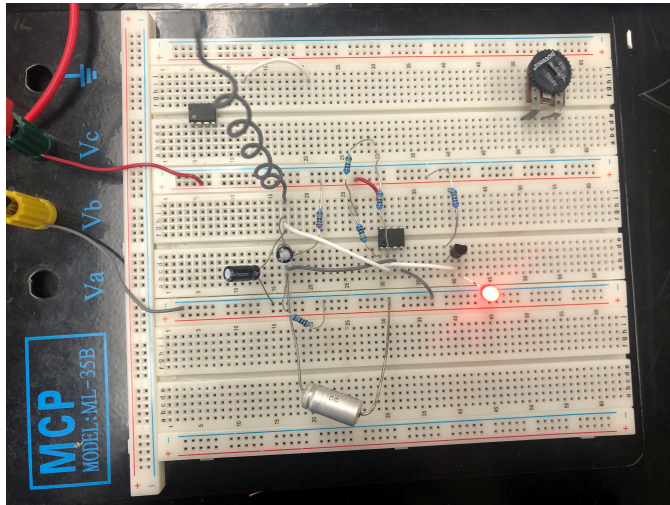
GSM, 2G, Searching for network, or SMS ~ 800 MHz

Design & Implementaion

Cicuit Diagram

- LM358P Op Amp
- NPN Transistor
- LED & Buzzer
- Capacitros and resistors

In-Lab Testing

A Quick Demo

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Limitations

Limitations

- Very small coverage radius.

- Require antenna, and more tuning for is.

- Radiation-free workplace.

- Such circuits cannot be simulated.

What's Next ?

What's Next ?

PCB Before Routing

PCB After Routing
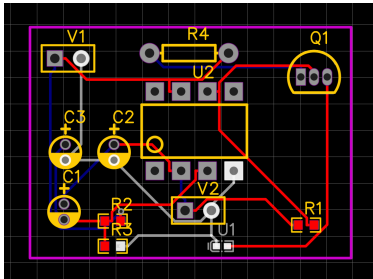
3D View

Conclusion

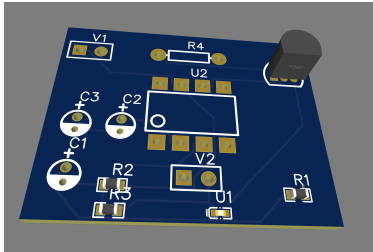the mobile phone detector based on an op amp is an effective and low-cost project, to deletct the existing of a mobile phone around via EM radiation emitted by the GSM signals.

Thank you for listening!

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