****Cairo University

Faculty of Engineering

Electronics and Electrical Communications Engineering Dept.

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| MOBILE JAMMER GSM 900 & DCS 1800 |
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| Prof.Dr Sameh Said |

msmsab@hotmail.com

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| Student Names | Student E-mail Addresses |
| AHMED MOHAMED SALAH EL-DIN MOHAMED | AHMED\_SALAH\_2424@YAHOO.com |
| KAREEM MAGDY ABD EL-AZIZ | Eng\_comm2011@yahoo.com |
| MOHAMED AHMED MAHMOUD SALLAM | eng\_sallam88@yahoo.com |
| MOHAMED RASHAD MOHAMED MOHAMED | eng\_commrashad@yahoo.com |
| MAHMOUD KHALED ABD EL-TAWAB | digital\_khaled@hotmail.com |

MOBILE JAMMER GSM 900 & DCS 1800

Prof.Dr Sameh Said

**Abstract:**

This report presents the design, implementation, and testing of a dual-band cell-phone jammer.

This jammer works at GSM 900 and DCS thus jams the three working Operators in Egypt (Vodafone, etisalat and Mobinil).

This project went through two phases:

**Phase one:** studying the GSM-system to find the best jamming technique, establishing the system design and selecting suitable components.

**Phase two:** buying all the needed components, drawing the overall schematics, fabricating the PCB layout, assembling the devices, performing some measurements and finally testing the mobile jammer.

**CONCLUSION:**

In this project, which turned out to be a full success, we designed a device that stops phone ringing. This device could be used in places where ringing is not desired at specific times, as ranging may disturb people in such places. The designed device works in dual band. It jams both the GSM 900 and GSM 1800 bands. The device was able to jam the three main cell phone carriers in Egypt.

The project was implemented according to the following plan:

* We started by studying the jamming techniques, and GSM system to find the best jamming method. The system block diagram was also specified in this stage.
* We searched for components that are needed for building this device, and specified the main components which were :
* For RF section, we needed two VCO’s that operate at the needed bands, two power amplifier, and two antennas.
* For the IF section, we used 555timer, Zener diode, mixer, PC power supply and some discrete components (resistors and capacitors).
* The schematic was drawn and some simulations for the IF-Section were performed. Then, we started to design the layout using Express PCB and proteus softwares. The PCB was built using the etching process on copper clad board.
* All the IF-components were bought from local companies. Then, the IF-section was built and tested.
* After that, we began to search for the RF-components (VCO and the board) in the local market. Since we failed to collect these IC’s from the local market, we had to order them from "Digi-key" US company.
* After that, we tested our circuit on oscilloscope and spectrum analyzer.
* Finally, we assembled and tested the jammer. Fortunately, we got positive results. Both bands were fully jammed.