DESIGN AND DEVELOPMENT OF A PORTABLE GLOBAL SYSTEM FOR MOBILE COMMUNICATION (GSM) JAMMING DEVICE FOR THE COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

An Undergraduate Design Project
Submitted to the Faculty of the
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree of
Bachelor of Science in Electronics and
Communications Engineering

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ABSTRACT

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The Global System for Mobile Communication (GSM) Jamming Device was developed with a noble intention in mind, that is, to promote better education by providing a better learning environment. With the use of the jamming device, students as well as faculty members can fully concentrate with the subject matter without unnecessary distractions coming from alert tones of mobile stations.

The design project underwent a lot of modifications and component replacements before it could attain its goal to block and cut-off signal coming to and from mobile phones nearby. The design underwent numerous testing at the Electricity and Electronics Laboratory of the Department of Computer and Electronics Engineering before finally meeting its primary purpose. The technical evaluation took place at the same vicinity on February 05, 2004. Mobile phones' signal strength was observed before and during the device's operation. The proponents' adviser and technical critic supervised the technical evaluation. After the evaluation, they recommend that students and faculty members need not evaluate the device since its effective area of coverage is only limited - two feet (in radius) for Globe and Touch Mobile subscribers and about a foot (also in radius) for Smart and Talk and Text subscribers. They suggested that an RF power amplifier must be employed to widen the area of coverage. Although one of the original objectives that the

proponents cited was to develop one, it was not accomplished because of the unavailability of the main component, which is an RF amplifier module.

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