II. The title: A Study of Security Issues of Voice over IP

II. A description of the project (this will be used to advertise the project).

Voice over IP is a scheme of the transmission of voice over packet-switched IP networks, which is one of the most important emerging trends in telecommunications. Like many new technologies, VoIP introduces both security risks and opportunities. VoIP is very different from the traditional telephone systems. These differences result in significant differences in security.

The security in VoIP is still a major concern in its applications. It is not clear whether or not the current version of VoIP is secure under various attacks. The aim of this project is twofold: (1) to investigate the security architecture of VoIP and give a summary of cons and pros of the current version of VoIP; (2) to propose a sound VoIP security protocol in order to overcome the cons.

III. The expected outcome.

After the completion of this project, we will have a sound understanding on VoIP and its security architecture and a written report that describes the results from of the project:

- description of the security model
- description of the security protocol
- description of the pros and cons of VoIP security
- description of the proposed improvement (it time is promising)

This project is designed as a preliminary study for an Honours project.