

### Intern Requirement

No. of students required	1
Preferred Discipline	<ul style="list-style-type: none"><li>• Computer Engineering/Computer Science</li><li>• Electrical Engineering</li></ul>
Prerequisites/ Skills Required	Knowledge in: <ul style="list-style-type: none"><li>• FAT16 and FAT32</li><li>• Symbian S60 3<sup>rd</sup> Edition Operating System and SDK</li><li>• programming (Windows C/C++)</li><li>• debugging and testing software</li></ul>

### Project Details

Title	Secure Wipe Micro SD Card on Symbian Phone
Overview/Background	<p>Mobile phones have become essential communication devices for personal and official uses. Over time, mobile phones accumulate a sizable amount of information on the phone memory and micro SD card. To prevent data leakage, we would like to develop software to securely wipe files and free spaces on the micro SD card.</p> <p>This project requires the understanding of the disk structure of the micro SD card (FAT16 and FAT32) as well as Symbian S60 3<sup>rd</sup> Edition operating system and SDK.</p>
Objectives/Scope/ Deliverables	<ol style="list-style-type: none"><li>1. Study of how Symbian operating system store files on the micro SD card.</li><li>2. Study of the FAT disk structure.</li><li>3. Design and develop software to do the following:<ol style="list-style-type: none"><li>a. Reside on Symbian S60 3<sup>rd</sup> Edition phone</li><li>b. Securely delete one or multiple files</li><li>c. Securely wipe free spaces</li><li>d. Format the card</li></ol></li></ol> <p><u>Final Deliverables</u></p> <ol style="list-style-type: none"><li>1. Report on study, software design and user guide.</li><li>2. Software with functionalities as mentioned on (3) above.</li></ol>
Project Duration	2-4 months