

Intern Requirement

No. of students required	1
Preferred Discipline	<ul style="list-style-type: none">• Computer Engineering/Computer Science• Electrical Engineering
Prerequisites/ Skills Required	Knowledge in: <ul style="list-style-type: none">• Windows 7 Operating System• programming (Windows C/C++)• debugging and testing software

Project Details

Title	Research on Volume Shadow Copy Service for Windows 7
Overview/Background	This project requires the indepth research and understanding of the Volume Shadow Copy Service (VSS) in Windows 7 and the VSS SDK. VSS is a security concern as files can be recovered through the VSS backup copy even when the files are deleted.
Objectives/Scope/ Deliverables	<ol style="list-style-type: none">1. Study of how Windows 7 duplicates the files, where it is stored, internal file structure and how to access the files stored.2. Research on the possibilities of the following:<ol style="list-style-type: none">a. add, copy or delete files in the VSS storage directoryb. modify the configuration settings such as time interval to backup, folders/files to exclude, etc.3. Design and develop software to securely delete files and the backup copies in the Volume Shadow Copy on Windows 7. <p><u>Final Delivearables</u></p> <ol style="list-style-type: none">1. Report on the study of VSS for 1 and 2 above.2. Proof-on-concept software to securely delete files and prevent recovery from the VSS.
Project Duration	2-4 months