Product Details:

- ❖ PC based Automation of Bench top equipments like V/I Meters, Oscilloscopes, etc.

Project Details:

- ❖ The different bench top equipments used for characterization & failure analysis purpose had a whole bunch of settings to be done on them manually in order to take a set of measurements.
- ❖ Also it becomes necessary to record & analyze the values by manual entry into a data base.
- ❖ The project necessitated a user friendly graphical environment to be created that can be made use of by any user even without the knowledge on the equipment to be used.
- ❖ The instruments have to be connected & communicated with the PC either by GPIB interface or though a serial RS232 interface.
- ❖ The software available was Labview and the programming was done using GUI techniques & tools.

Key Highlights:

- ❖ Establishing the communication between the instrument & PC and back & forth transfer of data was the most difficult task, considering the different numbering systems used.
- ❖ The communication between the PC and the instrument also need a fast execution response and suitable commands.
- ❖ All possible permutation and combination of input conditions that a user might need have to be taken into consideration and the front end screens have to be accordingly programmed
- ❖ The results have to be displayed either in screen or transferred to a file with proper tracking & data and storage area.

Equipments Used:

Language : Labview - GUI
Tester   : Any Windows based PC, Meters, Oscilloscopes, Frequency Generators, etc.