The final project is to be a USB controlled Electronic DC load, with the following features:

1. Current range of "5A -15mA".( to be verified)
2. Voltage range of "50V-1mV".( to be verified)
3. Connecting to a USB port as a serial device.
4. Controlled via an application GUI throw the serial port.
5. Powered via USB. (to be verified)
6. Has the four basic modes: CC, CV, CR, and CW.
7. Data logging in any mode.
8. External triggering.
9. Output functions, initially square wave.

Communications of data:

1. Static
   1. Average rate
   2. Maximum rate
   3. Peak rate
2. Dynamic(FIFO):
   1. Average rate
   2. Maximum rate
   3. Peak rate

Timing:

1. Rate of execution
2. Response time