

# Remote Lab Test Bench (RLTB)

## Objectives:

Create a system that allow students to test their circuits using the lab equipment in the university from the comfort of their home.

## Specifications:

- 12 input nodes (5 nodes for Oscilloscope and Function Generator, 3 nodes for power supply, 4 node for Digital Multimeter)
- 4 output nodes and a common node.
- A switching matrix that can connect any input node to any output node.
- A USB connection to the Lab PC
- A graphical user interface that allows the student to connect any input node to any output node.
- Can handle +/- 12V, 1A, AC/DC current, and 20MHz
- All the nodes will be banana connectors.

