



Scan here or visit our website to register ->

<http://www.CapitalRoboticsClub.com>

Python Assignment 3

How CPU work:

Transistor - TTL - ALU

Brought to you by



Robotics Team - VRC 99909A Rising Phoenix

Class Recap

- Electric circuit can be switched on and off (changing states)
- Electric switches can be controlled by electric signals from another circuit
 - Vacuum Tube
 - Relay
 - Transistor (more advanced form - semiconductor)
- Bootstrapping - transistors allow output of one circuit to control the output of another circuit, therefore making sophisticated logic gate circuit (called TTL - Transistor to Transistor Logic gate) possible
- We can now build a full binary adder (for 1 bit) electrically using TTL.
- Multiple-bit ALU can be built by combining multiple 1-bit full binary adder with some additional logic circuits

Assignment:

None