Language:Verilog

Program: Xilinx Vivado HLx 2017.3

**Title Format: Subject ( Writing about Y/N) (Part name/model)**

Explain the Software

* Gantt Chart
* Budget
* Rover (Y)( Rover 5 Chasis)
  + Hardware
    - Motor circuit(Texas Tech University, ECE Department, H-Bridge Motor Driver Rev. 4.1)
    - Breadboard
      * 2 - 4.7k Ohms
      * 5 volt reg ( LM7805C)
        + Input: .10 microF capacitor
        + Output:.22 miro F capacitor
      * 9 volt regulator (LF90CV)
        + Input: .1 microF capacitor
        + Output: 2.2 microF capacitor
  + Software
    - Logic table
    - Flowchart
* Inductive Sensor (Y)(Proximity Inductive Sensor, Model LJ18A3-8-Z/BX))
  + Hardware
    - Internal : 10 k Ohms
  + Software
    - Logic table
* 20hz recognition (?)(???)
  + Hardware
  + Software
    - Frequency counter
* Color Sensor (?)(YL-64 TCS3200 color sensor module)
  + Hardware
  + Software
    - Frequency counter
      * Depending on frequency, green or red
* Firing mechanism (?)(???)
  + Hardware
    - Servo?
      * PWM signal for angle
  + Software
    - Servo
      * PWM signal for angle