BlueStamp Engineering

Name: Maya S.
Location: Palo Alto
Instructor: Leah Feuerman
Starter Project: #1, Mini POV Kit
Main Project: #217: Hand Gesture Controlled RC Car
http://bluestampengineering.com/student-projects/ryan-l/
http://bluestampengineering.com/student-projects/christopher-h-2/
http://bluestampengineering.com/student-projects/vincent-h/
Major Steps to complete the project:

1. Make sure all parts have arrived as planned
2. Draw a schematic that shows every wire that will need to be connected.
    a. Glove Arduino ports/wiring
    b. RC Car Arduino ports/wiring (wiring to the PCB board)
    c. How the aluminum plate will be bent
3. Get Flex Sensors functioning ***Milestone 1: , record video, post to website***
    a. Flex sensors should return resistance
    b. 4 LEDs to represent movements of RC Car, increasing in brightness as the flex sensors bend more
    c. Arduino code
4. Get Flex Sensors functioning with DC Motors and Servo Motors: ***Milestone 2: This is a milestone. Save all design files, record a video, and post to the website.***
    a. Create one circuit to control all motors
    b. Model flex sensor combinations with those of RC Car
5. Set up Xbee: ***Milestone 3: This is a milestone. Save all design files, record a video, and post to the website.***
    a. Configure
    b. Upload latest firmware
    c. Ensure communication is working
    d. Get Arduinos to wirelessly communicate
    e. Create two separate circuits (one for flex, one for motors)
6. Mount all components: **Final Milestone*: This is a milestone. Save all design files, record a video, and post to the website.***
    a. Solder a PCB for flex sensors and attach to glove
    b. Mount motors and servos onto wood for RC Car
7. Create full documentation, write a blog post describing the system, and post everything on your webpage.