Meetings

Thursday, April 4th

* Meeting with Ashton
  + Hardwire the STM Discovery to the RC remote control to set an action high/low.
    - Connect buttons to the Discovery to output a high signal when a button is pressed.
  + When controlling the acceleration, can use a PWM—time-based to speed up the longer the acceleration is pressed?
  + **IF** we cannot get the car/remote to work, we are perfectly fine to transition to the NeoPixel.
    - **BUT** we need to decide now, though (before meeting on Tuesday)
    - Carter, Beverly, Nicholas meet after class.
  + Conversely, combine the NeoPixel idea with the RC car.
    - Attach a sensor to the car and have the LED strip show how close it is to an object by how many LEDs in the strip are lit up.
  + For the final video submission/presentation, talk about the process of how we started reverse engineering the car to see how it worked for this project.
* STM GND pin to “staple” of a “command”
* STM 5V pin to “bendy” of the same “command”
* How to change an output pin to 5v on the STM Discovery board?
  + Open-drain output type with a pull up resister (?)
  + Will ask Cristian on Tuesday.
* Beverly – bring pliers to bend the bendy parts; solder gun for soldering wires together

Tuesday, April 2nd

* Discussed the exact scope of the project:
  + Rather than actually rebuild the remote control, since this is mainly a programming project, control the car via the STM discovery.
  + Leave the car chip alone.
* Wire the RC car into a breadboard to connect to the discovery’s RX/TX pins.
  + But how to do this?
* Due to difficulty of reverse engineering the RC car, may scrap it for controlling an LED strip via the discovering and displaying what patterns it shows on an LCD screen.

Friday, March 29th

* First milestone document due
  + Discussion with Ashton states that the last milestone may not be possible due to timing.
* Next meeting with everyone decided for April 2nd @ 8:00a

Wednesday, March 27th

* More in-depth discussion about what milestones to expect for the project:
  + 1st – dismantle the RC car, figure out components, and interface with Discovery Board
  + 2nd – accelerator
  + 3rd – turning
  + 4th – obstacle sensing