Important Links
http://colvins.ca/?p=86
http://www.instructables.com/id/Arduino-stoplight-web-server/

Milestones:
-Assemble & Test Red LED Array (Blink on/off using transistor) **DONE**
-Assemble & Test Green LED Array (Blink on/off using transistor)
-Assemble & Test Yellow LED Array (Blink on/off using transistor)
DONE
-do mechanical design **DONE**
-get stoplight machined by kyle
-how to get ethernet connection (use 5V power if possible)
-make web page for server
-get schematic written down **DONE**
-complete a formal schematic

Ideas for improvements:
-music controlled mode
-motion detector detector controlled mode

6/26
done today:
finished starter project
started major project
finished designs for stoplight
to do tomorrow:
need to get light bulbs
need to find IP address
need to make video of starter project
http://www.bulbtown.com/T5_5_6V_28V_WHITE_L_E_D_MINIATURE_BULB_E12_BASE_p/l8035.htm
find ideas for stoplight over server
http://www.thorlabs.com/newgrouppage9.cfm?objectGroup_ID=2853

6/27
done today:
made video for starter project
light bulbs won't be bought will use LED's
design for stoplight finished

to do tomorrow:
get design pdf or print out and make into pdf
start building breadboard for LED's

6/28
done today:
started building breadboards for LED's
to do tomorrow:
keep building breadboards for LED's

6/29
done today:
completed first LED board
found links for ethernet bridge and power supply
http://www.amazon.com/Cisco-Linksys-WET54G-Wireless-G-Ethernet-Bridge/dp/B00008WMBT
http://www.dhgate.com/5v-ac-power-supply-for-wet54g-linksys-ethernet/p-ff8080812d0d5b9a012d0d6276d73894.html
to do monday:
start on LED board for yellow LED's
continue working on schematic on eagle

7/2
done today:
made yellow LED array and cut it out
cut out red LED array
to do tomorrow:
start on green LED array
continue on schematic

7/3
done today:
nothing, worked on green LED board but they turned out not to be bright enough
to do tomorrow:
do work on getting new LED's

7/5
done today:
desoldered green LED board
did a lot of research

to do tomorrow:
continue research
find out how to do webpage for project

7/6
http://www.newegg.com/Product/Product.aspx?Item=N82E16833704052&SortField=0&SummaryType=0&PageSize=10&SelectedRating=-1&VideoOnlyMark=False&IsFeedbackTab=true#scrollFullInfo
cheapest ethernet bridge with best reviews
done today:
found an ethernet bridge and did extensive research on the programming for the stoplight
to do monday:
need to start on green LED board and get a video of it working
get all three LED boards to work on newly written code
find pins to attach to the ribbon cables

7/9
goals for the day:
1 get ribbon cable soldered properly so they can easily attach to the arduino
2 cut holes for lights in pvc pipe
goals accomplised:
goal 1, goal 2: got one hole cut in the pvc
got green LED's
plan for tomorrow:
start to work on green LED array board
continue cutting holes in pvc

7/10
goals for the day:
1 make light array for green LED's
2 get all 3 lights working at the same time
3 get video of all 3 lights working
goals accomplished
goal 1 was only completed
also got ethernet code done
plan for tomorrow:
continue on pvc and get all 3 LED arrays working at the same time

7/11

goals for the day:
1 get all 3 lights working at the same time
2 get video of all 3 lights working at the same time
3 continue cutting holes in pvc
Goals completed:
got 2 lights working at the same time
cut another hole into the pvc and finished the first one
Lessons learned:
pvc can get really messy when you cut it
plan for tomorrow:
continue cutting holes in pvc
cement light holes to the holes in the pvc
7/12
goals for the day:
1 get light holes cemented to pvc
2 cut final hole in pvc
goals completed:
1 and 2
plan for tomorrow:
get all 3 lights working at the same time

7/13
goals for the day:
1 get all 3 lights working at the same time
2 check over stopduino code
goals completed:
lights still need headers so they won't work properly yet
stopduino code is complete and finally downloading and compiling properly
goals for monday:
get the arduino ethernet working over a wireless connection
maybe start painting the stoplight

7/16
goals for the day:
1 get all lights put together
2 get web server
goals completed:
2 local server completed
goals for tomorrow:

get all lights working

7/17
goals for the day:
1 get all lights working together
2 get video of all lights
3 get code uploaded onto board and get board running over local host server
goals completed:
1, 2, 3 is up but not tested yet
goals completed:
get board running over server
make blogpost

7/18
goals for the day:
1 make blogpost
2 get board running over server
3 get lights blinking over web server
goals completed:
1, 2, 3
the board is running over the server and the lights are being controlled from a router to a linksys to the schools wifi
goals for tomorrow:
get the board running over a server but with little to no wires

7/19
goals for the day:
1 get the arduino to transmit signals to the lights over wifi with the minimum amount of wires needed
goals completed:
the arduino is unable to run over wireless but when plugged straight into the router the board runs fine. It also needs to be directly plugged into the computer to run
Goals for tomorrow:
get board to run wirelessly over the internet

7/20
goals for the day:
1 get arduino to work while connected only to ethernet bridge
goals completed:

started work on eagle schematic
brainstormed ideas for arduino board controls

7/23
goals for the day:
1 get ethernet bridge configured so that it only needs to be physically connected to the arduino and it can be hooked up to the computer and the the wi-fi over wi-fi
Goals completed:
the ethernet bridge worked when within five feet of the wi-fi connector. once moved though it did not work again even when it was moved back within five feet. the same problem of not being able to connect to the bridge settings online when connected. need to keep fooling around with the settings. when connected again must get formal directions to fixing this written down in a good order
goals for tomorrow:
get ethernet bridge working from other room
get ethernet bridge easily working and functioning

7/24
goals for the day:
1 get ethernet bridge working
ethernet bridge works if you put in the following numbers for the following lines in network setting; when connected to the ethernet bridge by cable, while in network settings make the location static IP and set “Configure IPv4” to “manually”. Set “IP Address:” to “192.168.1.253”,
set “Subnet Mask:” to “255.255.255.0”, and set “Router:” to “192.168.1.254”. after this is all done properly you can put “192.168.1.254” into the address bar on your computer and it will take you to the site where you can edit the settings and similar stuff for the TL-WA801ND ethernet bridge
goals completed:
^^^
goals for tomorrow:
find out how to install lights in stoplight

7/25
goals for today:
1 mount lights inside of stoplight

2 paint stoplight
goals completed:
the entire stoplight is paint but still needs another coat of paint on it
goals for tomorrow:
finish painting stoplight
find out how to mount lights and arduino inside of stoplight

7/26
goals for today:
1 finish painting stoplight
2 mount lights in stoplight
goals completed:
did more painting and it still needs one more coat
found out how to use github and I need to make a new repository for my project
goals for tomorrow:
finish making new repository
put more paint on stoplight

7/27
goals for today:
put another coat of paint on the stoplight
finish making the new repository for the project
goals completed:
painting the stoplight is finished the repository is being bad and not working, may be caused because of the update to mac's newest operating system leopard. the lights are now mounted inside of the of the stoplight. the green light is the only light working so it may be a connection error with the headers that is causing the problem.
goals for monday:
get all the lights working while inside of the stoplight
test if the ethernet capability is still working

7/30
goals for today:
get all the lights working inside of stoplight
touch up wiring for lights to the arduino

find something to properly attach wires to headers
goals completed:
got all lights working
all wiring has been fixed
lessons learned:
crazy glue sucks
goals for tomorrow:
get all lights working over a server

7/31
goals for today:
get all lights to work over the web server while in the stoplight
goals completed:
got all the lights working and the project is finished
goals for tomorrow:
do documentation for the project

8/1
goals for today:
get schematic done
get notebook updated on github
goals completed:
schematic was finished and everything but the BOM is up on github
goals for tomorrow:
get a page for github
get BOM uploaded to github

8/2
goals for today:
get BOM uploaded to github
get a github page for the stopduino
goals completed:
everything is now up on github and a page has been made