**Spike 03 outcomes**

**Name: Flash a firmware to the esp8226**

**Goals:**

The team needs to be able to flash different firmware to the device, this spike should impart the ability

**Personnel:**

primary – Edward secondary - Adam

**Technologies, Tools, and Resources used:**

* <https://github.com/geekscape/nodemcu_esp8266>
* https://github.com/geekscape/esp8266\_nodemcu\_examples/firmwareJDBC 4

**Tasks undertaken:**

Installed pyserial on a laptop running Ubuntu. Pulled the git repository for pytool. Ran the command to flash the device with NodeMCU firmware (Lua interpreter and SDK).

**What we found out:**

command and output:

edward@l10nA6:~/Source/esptool$ sudo python2.7 esptool.py -p /dev/ttyACM0 write\_flash 0x00000 ~/Source/esp8266\_nodemcu\_examples/firmware/nodemcu\_dev\_0x00000.bin 0x10000 ~/Source/esp8266\_nodemcu\_examples/firmware/nodemcu\_dev\_0x10000.bin  
Connecting...  
Erasing flash...  
Writing at 0x0000b400... (100 %)  
Erasing flash...  
Writing at 0x00064400... (100 %)  
  
Leaving...

**Open issues/risks [Optional]:**

* Requires python2.7 and depends on pyserial. A little arcane and unwieldy, we might consider adding a GUI in QTQuick and making it python2/3 agnostic (or just python 3).

**Recommendations [Optional]:**