CN1 +5V

PWR
GNDBREAK
GND
GND

+5V
C1
1000uF
GND

+5V
GND

U$1
Gnd   Vout   +3V3
Vin   Vu
Vb   mbed NXP LPC1768 Microcontroller   IF-
nR   IF+
p5 / SPI mosi   Ethernet RD-
p6 / SPI miso   Ethernet RD+
p7 / SPI sck   Ethernet TD-
p8   Ethernet TD+
p9 / Serial tx / I2C sda   USB D-
p10 / Serial rx / I2C scl   USB D+
p11 / SPI mosi   p30 / CAN rd
p12 / SPI miso   p29 / CAN td
p13 / SPI SCK / Serial tx   p28 / I2C sda / Serial tx
p14 / Serial rx   p27 / I2C scl / Serial rx
p15 / AnalogIn   p26 / PwmOut
p16 / AnalogIn   p25 / PwmOut
p17 / AnalogIn   p24 / PwmOut
p18 / AnalogIn / AnalogOut   p23 / PwmOut
p19 / AnalogIn   p22 / PwmOut
p20 / AnalogIn   p21 / PwmOut

J1
+5V
SCL   4
SDA   3
VCC   2
GND   1
GND

MOSI

Blue - SCL
Green - SDA
Yellow - GND
Orange - +5V

J2
SCL   4
SDA   3
VCC   2
GND   1
GND

+3V3   +5V

R1   R2
1k   1k
MOSI   470
                    R3
BSS138
Q1
GND

WS2812B   WS2812B
           VDD   VDD
                    C2   C3
DI GND DO   100n   DI GND DO   100n
   GND   GND

There are a total of 16 WS2812 LEDs in
the NeoPixel ring but only 2 are shown here.

TITLE: Pumpkin

Design by: Adam Green   REV:
                                     1.0

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