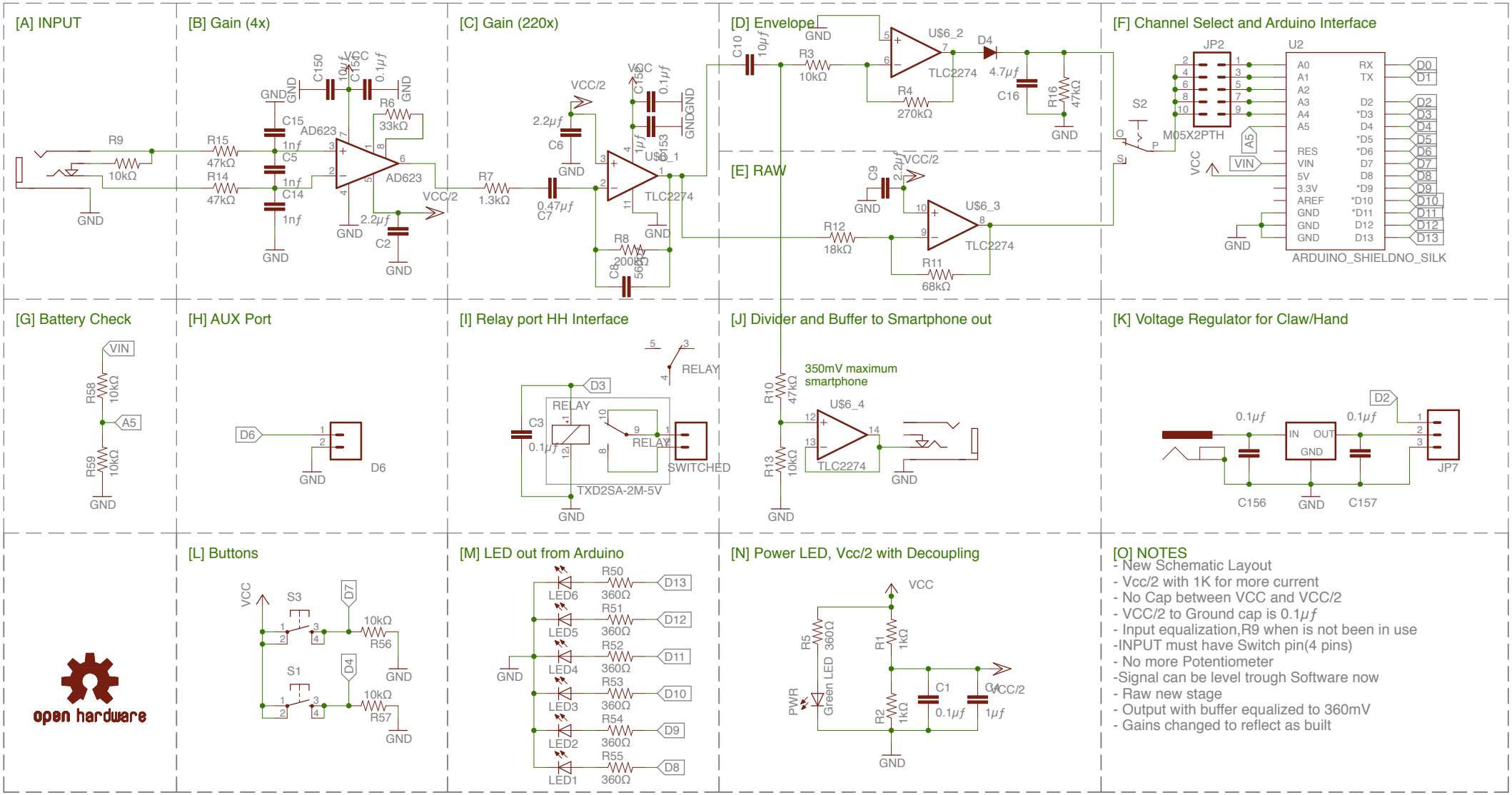
[A] INPUT
R9
10kΩ
GND
[B] Gain (4x)
R15
47kΩ
R14
47kΩ
C15
1nf
C5
1nf
C14
1nf
AD623
C150
10µf
VCC
C151
0.1µf
R6
33kΩ
2.2µf
C2
VCC/2
[C] Gain (220x)
VCC/2
2.2µf
C6
0.47µf
C7
R7
1.3kΩ
C152
0.1µf
C153
1µf
U$6_1
TLC2274
R8
200kΩ
C8
560pf
[D] Envelope
C10
10µf
R3
10kΩ
U$6_2
TLC2274
R4
270kΩ
D4
4.7µf
C16
R16
47kΩ
[E] RAW
C9
2.2µf
VCC/2
U$6_3
TLC2274
R12
18kΩ
R11
68kΩ
[F] Channel Select and Arduino Interface
JP2
M05X2PTH
S2
U2
A0
A1
A2
A3
A4
A5
RES
VIN
5V
3.3V
AREF
GND
RX
TX
D2
*D3
D4
*D5
*D6
D7
D8
*D9
*D10
*D11
D12
D13
ARDUINO_SHIELDNO_SILK
[G] Battery Check
VIN
R58
10kΩ
A5
R59
10kΩ
[H] AUX Port
D6
[I] Relay port HH Interface
RELAY
D3
C3
0.1µf
TXD2SA-2M-5V
SWITCHED
[J] Divider and Buffer to Smartphone out
350mV maximum
smartphone
R10
47kΩ
U$6_4
TLC2274
R13
10kΩ
[K] Voltage Regulator for Claw/Hand
D2
0.1µf
IN
OUT
GND
JP7
C156
C157
[L] Buttons
VCC
S3
D7
10kΩ
R56
S1
D4
R57
[M] LED out from Arduino
LED6
LED5
LED4
LED3
LED2
LED1
R50
R51
R52
R53
R54
R55
360Ω
D13
D12
D11
D10
D9
D8
[N] Power LED, Vcc/2 with Decoupling
R5
360Ω
Green LED
PWR
R1
1kΩ
R2
1kΩ
C1
0.1µf
C4
1µf
VCC/2
[O] NOTES
- New Schematic Layout
- Vcc/2 with 1K for more current
- No Cap between VCC and VCC/2
- VCC/2 to Ground cap is 0.1µf
- Input equalization,R9 when is not been in use
-INPUT must have Switch pin(4 pins)
- No more Potentiometer
-Signal can be level trough Software now
- Raw new stage
- Output with buffer equalized to 360mV
- Gains changed to reflect as built
open hardware