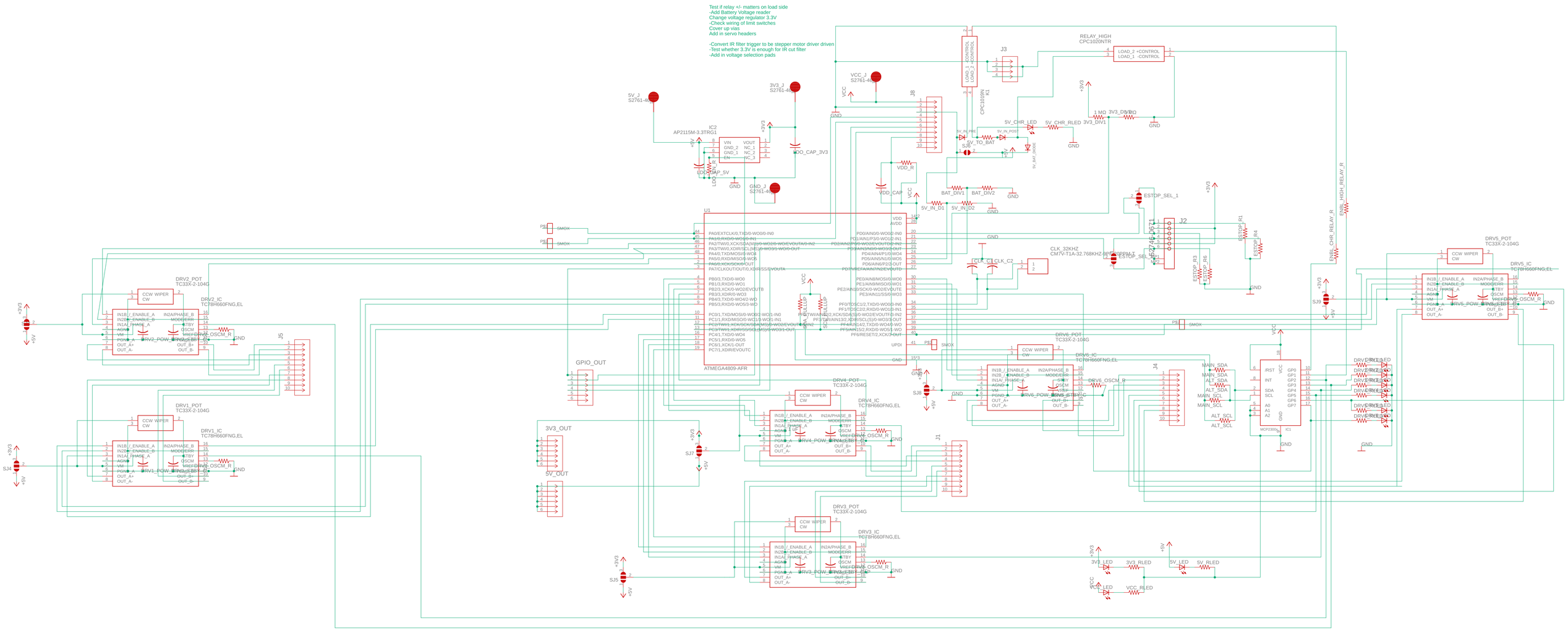
Test if relay +/- matters on load side
-Add Battery Voltage reader
Change voltage regulator 3.3V
-Check wiring of limit switches
Cover up vias
Add in servo headers
-Convert IR filter trigger to be stepper motor driver driven
-Test whether 3.3V is enough for IR cut filter
-Add in voltage selection pads
RELAY_HIGH
CPC1020NTR
J3
LOAD_2 +CONTROL
LOAD_2 -CONTROL
LOAD_1 +CONTROL
LOAD_1 -CONTROL
CPC1019N
K1
VCC_J
S2761-46
3V3_J
S2761-46
5V_J
S2761-46
J8
IC2
AP2115M-3.3TRG1
VIN
GND_2
GND_1
EN
VOUT
NC_1
NC_2
NC_3
LDO_CAP_5V
LDO_CAP_3V3
GND_J
S2761-46
5V_CHR_LED
5V_CHR_RLED
3V3_DIV1
3V3_DIV2
1 MΩ
5V_IN_PBE
5V_IN_POS
5V_TO_BAT
5V_BAT_DIODE
VDD_R
VDD_CAP
BAT_DIV1
BAT_DIV2
5V_IN_D1
5V_IN_D2
U1
ATMEGA4809-AFR
PA0/EXTCLK/0.TXD/0-WO0/0-IN0
PA1/0.RXD/0-WO1/0-IN1
PA2/TWI0.XCK/SDA(MS)/0-WO2/0-WO/EVOUTA/0-IN2
PA3/TWI0.XDIR/SCL(MS)/0-WO3/1-WO/0-OUT
PA4/0.TXD/MOSI/0-WO4
PA5/0.RXD/MISO/0-WO5
PA6/0.XCK/SCK/0-OUT
PA7/CLKOUT/OUT/0.XDIR/SS/EVOUTA
PB0/3.TXD/0-WO0
PB1/3.RXD/0-WO1
PB2/3.XCK/0-WO2/EVOUTB
PB3/3.XDIR/0-WO3
PB4/3.TXD/0-WO4/2-WO
PB5/3.RXD/0-WO5/3-WO
PC0/1.TXD/MOSI/0-WO0/2-WO/1-IN0
PC1/1.RXD/MISO/0-WO1/3-WO/1-IN1
PC2/TWI1.XCK/SCK/SDA(MS)/0-WO2/EVOUTC/1-IN2
PC3/TWI1.XDIR/SS/SCL(MS)/0-WO3/1-OUT
PC4/1.TXD/0-WO4
PC5/1.RXD/0-WO5
PC6/1.XCK/1-OUT
PC7/1.XDIR/EVOUTC
PD0/AIN0/0-WO0/2-IN0
PD1/AIN1/P3/0-WO1/2-IN1
PD2/AIN2/P0/0-WO2/EVOUTD/2-IN2
PD3/AIN3/N0/0-WO3/3-OUT
PD4/AIN4/P1/0-WO4
PD5/AIN5/N1/0-WO5
PD6/AIN6/P2/2-OUT
PD7/VREFA/AIN7/N2/EVOUTD
PE0/AIN8/MOSI/0-WO0
PE1/AIN9/MISO/0-WO1
PE2/AIN10/SCK/0-WO2/EVOUTE
PE3/AIN11/SS/0-WO3
PF0/TDSC1/2.TXD/0-WO0/3-IN0
PF1/TDSC2/2.RXD/0-WO1/3-IN1
PF2/AIN12/2.XCK/SDA(MS)/0-WO2/EVOUTF/3-IN2
PF3/AIN13/2.XDIR/SCL(MS)/0-WO3/3-OUT
PF4/AIN14/2.TXD/0-WO4/0-WO
PF5/AIN15/2.RXD/0-WO5/1-WO
PF6/RESET/2.XCK/3-OUT
UPDI
VDD
AVDD
GND
PB2
PB3
PB4
PB5
PB6
PB7
PE0
PE1
PE2
PE3
PF0
PF1
PF2
PF3
PF4
PF5
PF6
SMOX
CLK_32KHZ
CM7V-T1A-32.768KHZ-10PPM-T
C1
C2
CLK_C1
CLK_C2
J2
ESTOP_SEL_1
ESTOP_SEL_2
ESTOP_R1
ESTOP_R3
ESTOP_R4
ESTOP_R6
ENB_HIGH_RELAY_R
ENB_CHR_RELAY_R
DRV2_POT
TC33X-2-104G
DRV2_IC
TC78H660FNG,EL
DRV1_POT
TC33X-2-104G
DRV1_IC
TC78H660FNG,EL
DRV4_POT
TC33X-2-104G
DRV4_IC
TC78H660FNG,EL
DRV3_POT
TC33X-2-104G
DRV3_IC
TC78H660FNG,EL
DRV6_POT
TC33X-2-104G
DRV6_IC
TC78H660FNG,EL
DRV5_POT
TC33X-2-104G
DRV5_IC
TC78H660FNG,EL
CCW WIPER
CW
IN1B / ENABLE_A
IN2B / ENABLE_B
IN1A/ PHASE_A
AGND
VM
PGND_A
OUT_A+
OUT_A-
IN2A/PHASE_B
MODE/ERR
TBY
OSCM
VREF/DRV2_OSCM_R
OUT_B+
OUT_B-
GND
J5
GPIO_OUT
3V3_OUT
5V_OUT
J1
J4
MAIN_SDA
ALT_SDA
MAIN_SCL
ALT_SCL
/RST
INT
SDA
SCL
A0
A1
A2
GP0
GP1
GP2
GP3
GP4
GP5
GP6
GP7
VCC
GND
MCP23008
IC1
DRV1_RLED
DRV2_RLED
DRV3_RLED
DRV4_RLED
DRV5_RLED
DRV6_RLED
3V3_LED
3V3_RLED
5V_LED
5V_RLED
VCC_LED
VCC_RLED
SJ34
SJ35
SJ36
SJ37
SJ38
+3V3
+5V
VCC