Shield Headers

J4
- 4 GLV_RTN
- 3 GLV_RTN
- 2 CAN_L
- 1 CAN_H

Motor Controller Header

J5
- 4 SR_CTRL
- 3 GLV_RTN
- 2 CAN_L
- 1 CAN_H

TSI Header

J6
- 2 CAN_L
- 1 CAN_H

PICAN 2 Connector

J1
- 1 5V
- 2 GLV_RTN
- 3 SDA_PI
- 4 SCL_PI

I2C Testing Header

J2
- 4 24V
- 3 GLV_RTN
- 2 SDA_TSI SDA_PI
- 1 SCL_TSI SCL_PI

GLV 24V and I2C to logic

J3
- 2 GPIO25
- 1 GPIO24

PICAN 2 Connector

Mounted External Components

U10
- 3V3 — 1 Vin
- — 2 3V
- GLV_RTN — 3 GND PS0 — 7 GLV_RTN
- SCL_PI — 4 SCL PS1 — 6
- SDA_PI — 5 SDA

BNO_055
Symbol & Footprint for IMU to be mounted to the Logic board

U11
- 3V3 — 2 Vin NC — 1
- SDA_PI — 4 SDA NC — 3
- SCL_PI — 5 SCL GND — 5 GLV_RTN

Raspberry_PI_RTC
Symbol & Footprint for Pi RTC to be mounted to the Logic board

U1 — RaspberryPi3

- 1 3V3   5V 2
- 3 SDA   5V 4
- 5 SCL   GND 6
- 7 GPIO_4   GPIO_14 8
- 9 GND   GPIO_15 10
- 11 GPIO_17   GPIO_18 12
- 13 GPIO_27   GND 14
- 15 GPIO_22   GPIO_23 16
- 17 3V3   GPIO_24 18
- 19 MOSI   GND 20
- 21 MISO   GPIO_25 22
- 23 SCLK   GPIO_8 24
- 25 GND   GPIO_7 26
- 27 GPIO_0   GPIO_1 28
- 29 GPIO_5   GND 30
- 31 GPIO_6   GPIO_12 32
- 33 GPIO_13   GND 34
- 35 GPIO_19   GPIO_16 36
- 37 GPIO_26   GPIO_20 38
- 39 GND   GPIO_21 40

Signals: 3V3, SDA_PI, SCL_PI, PI_SPI_MOSI, PI_SPI_MISO, PI_SPI_SCLK, SR_CTRL, 5V, GND, GPIO24, GPIO25, PI_SPI_CE0

Regulator PS1

- 12 TRIM
- 11 +VO_3
- 10 +VO_2
- 9 +VO_1
- 8 GND_4
- 7 GND_3
- 6 GND_2
- 5 GND_1
- 4 VIN_3
- 3 VIN_2
- 2 VIN_1
- 1 CTRL

C1 22uF
C2 100uF
C3 100uF
L1 22uH
24V
GLV_RTN
5V
GND

Status LED

- 5V — R1 2K — D1 LED
- 3V3 — R2 1K — D2 LED
- SDA_PI — R3 1K — D3 LED
- GND

TOP LEVEL