

Battery Power Switch

Battery Connector

Motor Connectors

Motor Controller

Battery Power LED

Motor EMI Filters

PWM Capable Status LEDs

Battery EMI Filter

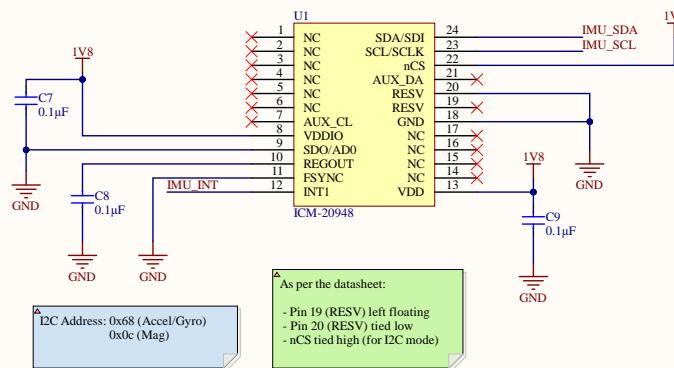
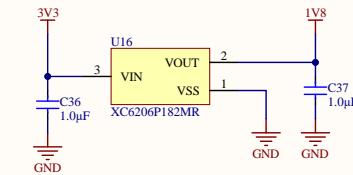
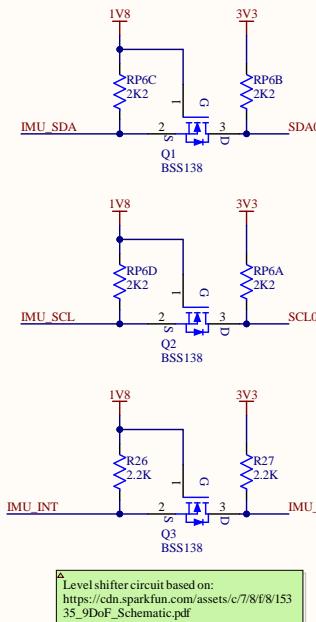
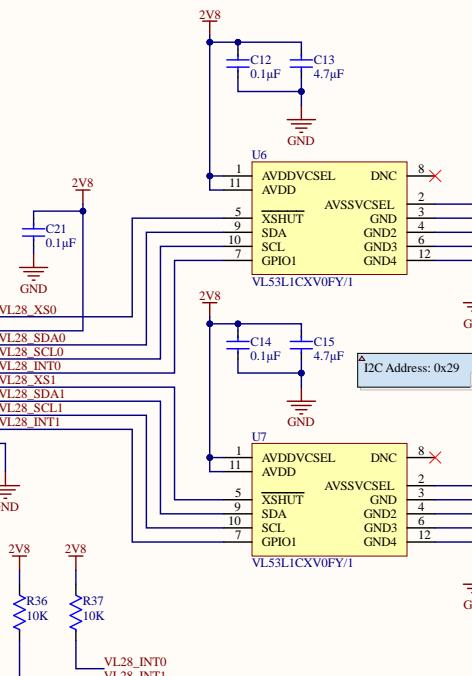
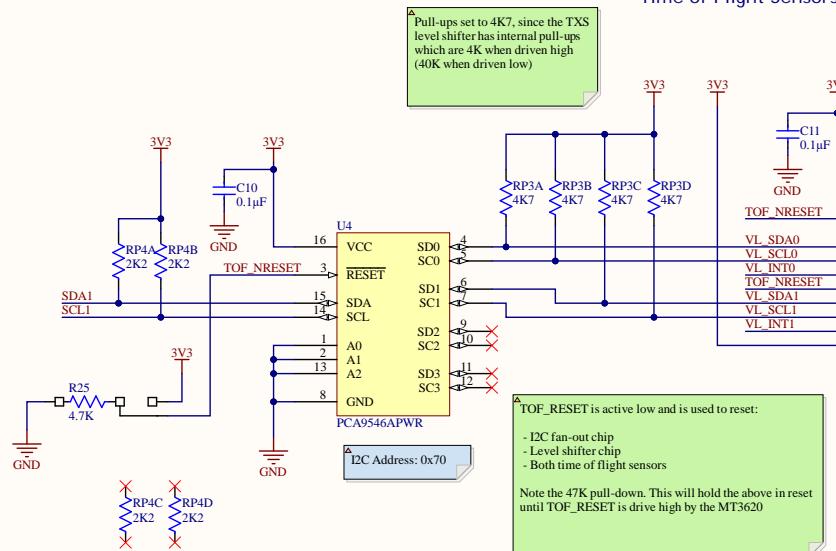
Test Points

Motor Controller Supply EMI Filters

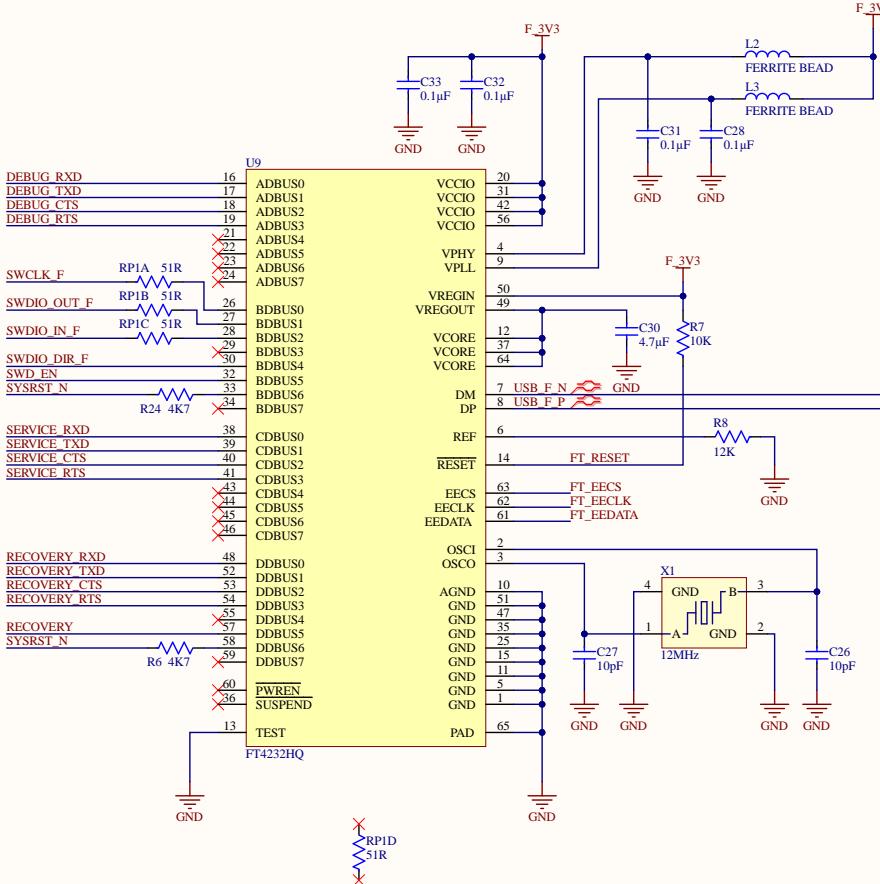
Azure Sphere
Microsoft ConfidentialNAME OF THIS PROJECT
Balancing_Robot_1_2.PjrPcbTITLE OF THIS SHEET
Hebrides Robot - Main

FILE PATH Balancing_Robot_1_2_Main.SchDoc LAST MODIFIED 03/02/2021 PAGE 1 OF 3 DRAWN BY Stuart Taylor REVISION 1.2

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IMU**IMU 1V8 LDO****IMU I2C Level Shifters and Pull-ups****Time of Flight Sensors**

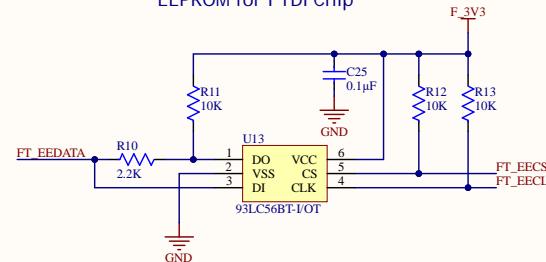
FTDI USB Interface



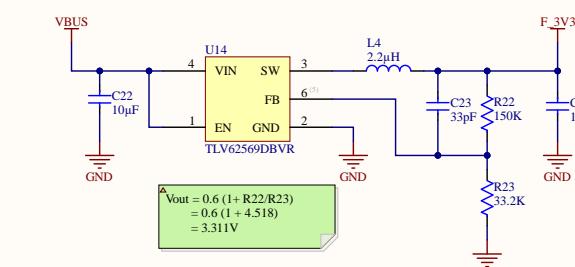
FTDI pin functions (Port C)

38	CDBUS0	TxD
39	CDBUS1	RxD
40	CDBUS2	RTS#
41	CDBUS3	CTS#
42	CDBUS4	DTR#
43	CDBUS5	DSR#
44	CDBUS6	DCD#
45	CDBUS7	RI#/ TXDEN#
46	CDBUS7	RI#/ TXDEN#

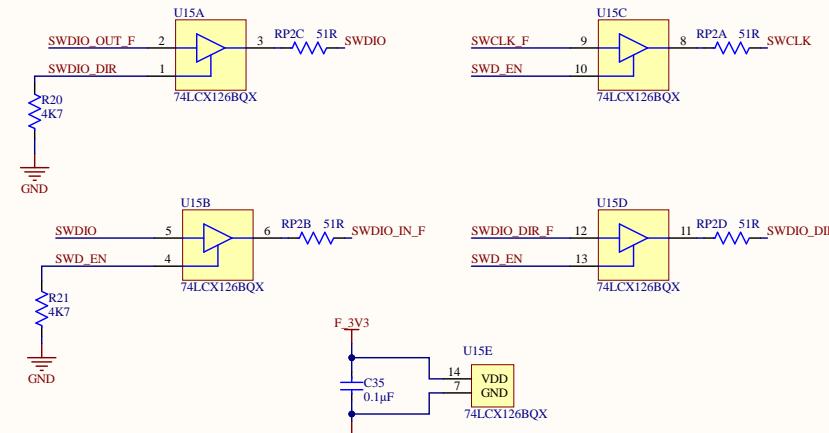
EEPROM for FTDI Chip



3V3 Buck Converter



SWD_DIO Tri-state Buffer



FTDI Activity LED

