

# Wiring Table — Human Follow Robot

Controller: Teensy 4.1

Power: Dual LiPo → Buck Converters → Logic & Jetson

## Front Axle — Motor Drivers (BTS7960)

Pin	Signal	Destination Pin
5	FL_PWM	PWM-L
6	FR_PWM	PWM-R
7	FL_EN	EN-L
8	FR_EN	EN-R
A6	FL_IS	IS-L
A5	FR_IS	IS-R

## Rear Axle — Motor Drivers (BTS7960)

Pin	Signal	Destination Pin
0	BL_PWM	PWM-L
1	BR_PWM	PWM-R
2	BL_EN	EN-L
3	BR_EN	EN-R
A9	BL_IS	IS-L
A8	BR_IS	IS-R

## Steering — Motor Driver (BTS7980)

Pin	Signal	Destination Pin
28	TL_PWM	PWM-L
29	TR_PWM	PWM-R
30	TL_EN	EN-L
31	TR_EN	EN-R
A3	TL_IS	IS-L
A2	TR_IS	IS-R

## Wheel Alignment Sensor

Pin	Signal	Destination
A10	Left	Alignment Sensor Left Output
A11	Middle	Alignment Sensor Middle Output

A12	Right	Alignment Sensor Right Output
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## Power & Comms

Pin	Signal	Destination
VIN	+Vcc	5 V Logic rail from buck converter
GND	Ground	Common GND to all modules
USB	Data	Jetson Orin Nano