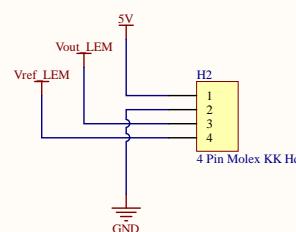
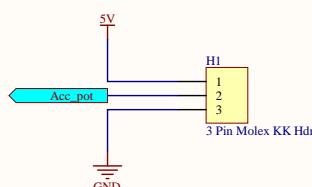
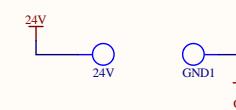
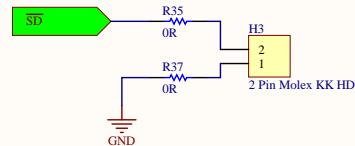
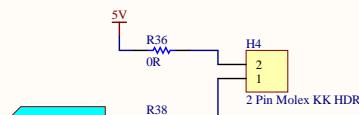
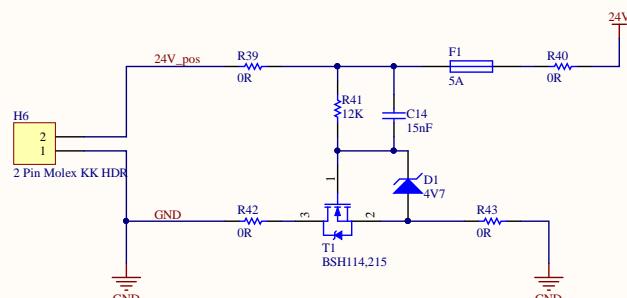
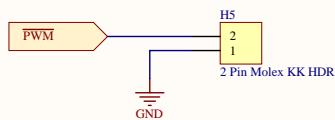


LEM SENSOR HAIS150-P**ACCELERATOR HEADER****POWER****SIGNAL TEST POINTS****SHUT DOWN****BRAKE SWITCH****24V POWER CONNECTOR****PWM CONNECTOR**

1

2

3

4

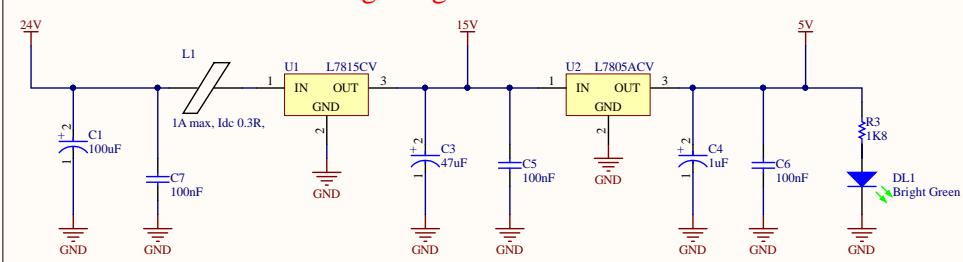
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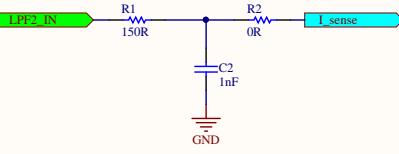
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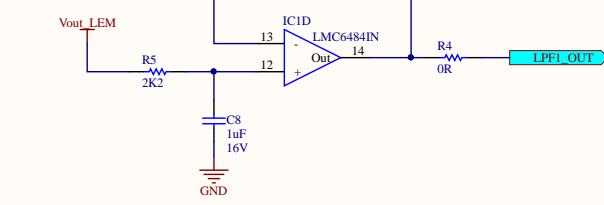
Voltage Regulators



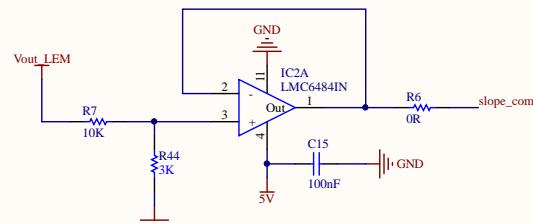
Low Pass Filter



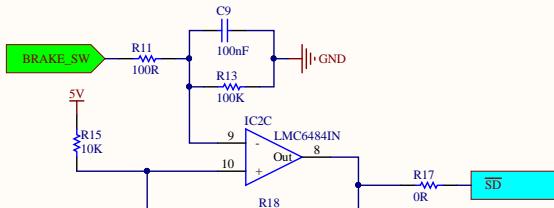
Low Pass Filter



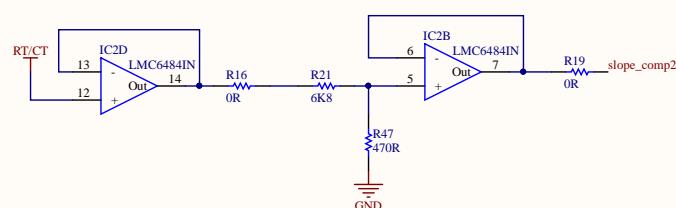
Slope Compensation Buffer 1



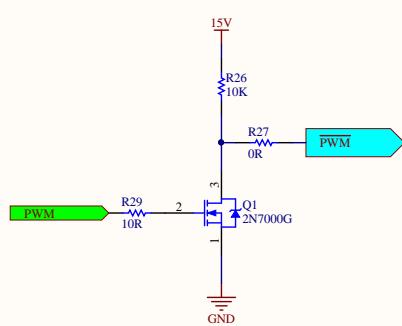
Brake Debouncing Schmitt Trigger



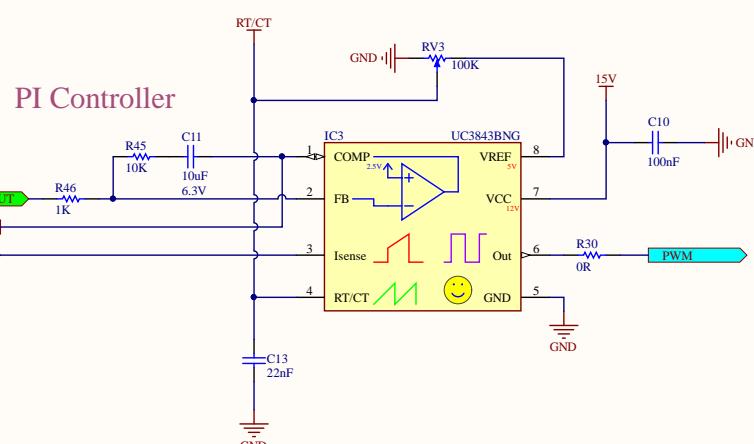
Slope Compensation Buffer 2



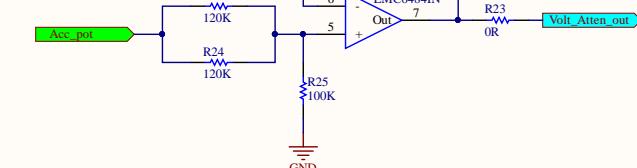
PWM Inverter



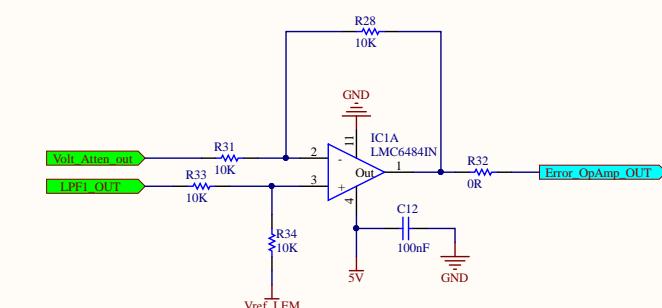
CMC



PI Controller



Summing Differential Amplifier

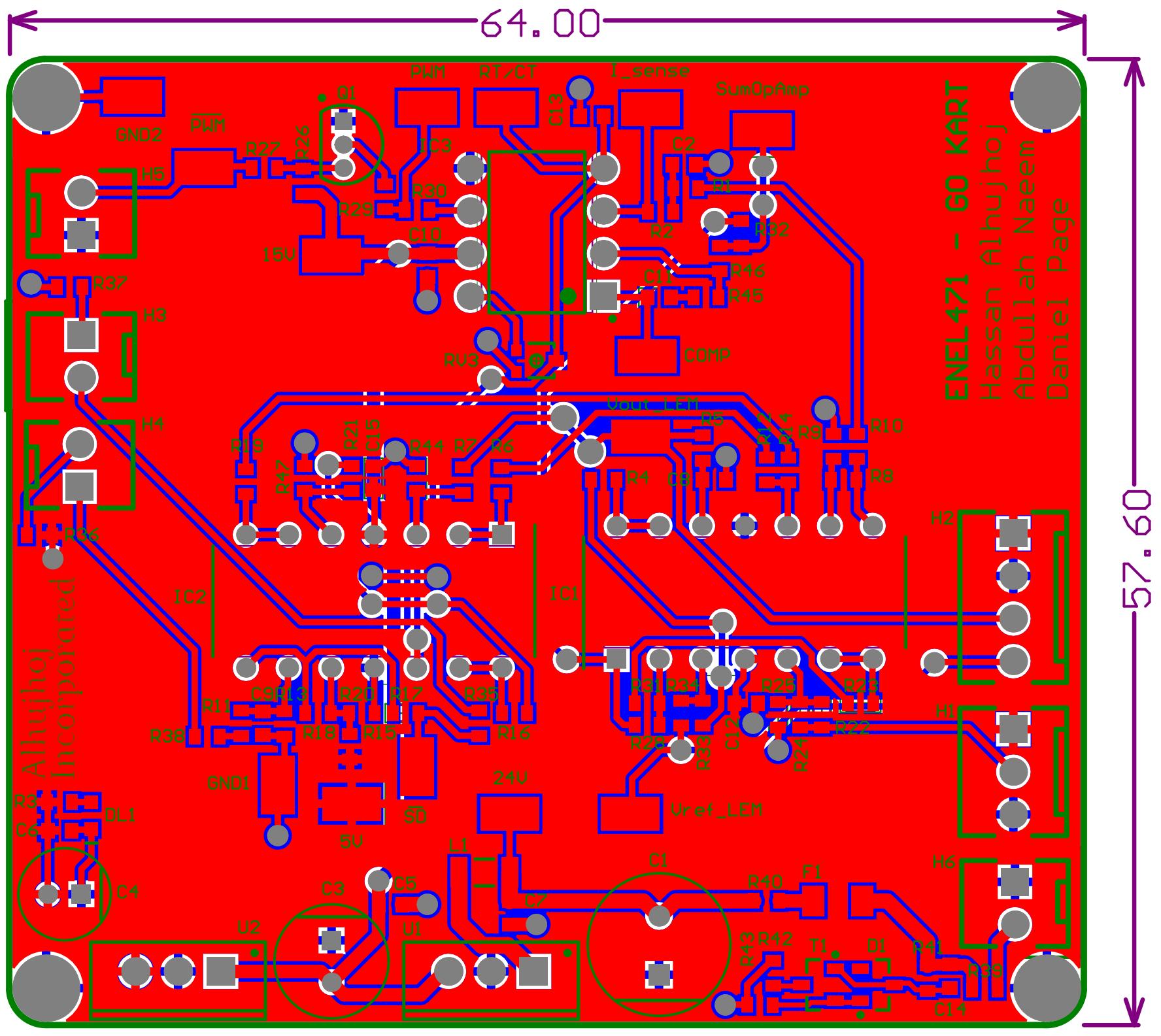


Title: ENEL471 - Go Kart Controller Circuit

* ECE Department
University of Canterbury
Christchurch 8041
New Zealand

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logo.png

Drawn by Hassan Alhujhoj * Revision: *
Date: 26/09/2020 Time: 1:11:00 pm Sheet: * of *
File: C:\Users\Hassan\OneDrive - University of Canterbury\Desktop\Semester2_2020\ENEL471\Go Kart Assignment\GO CART_PCB.DSN



Comment	Description	Designator	Footprint
100uF	CAP ALUM 100uF 20%	C1	FP-ESLGM-
1nF	CAP CER 1nF X7R +-	C2	CAPC1608L
47uF	CAP ALUM 10uF 20%	C3	FP-ESLE3-M
1uF	CAP ALUM 22uF 20%	C4	FP-UPW1E
100nF	CAP CER 100nF X7R	C5, C6, C7, C9, C10,	CAPC1608L
1uF	CAP CER 1uF Y5V -20%	C8	CAPC1608L
10uF	CAP CER 10uF X5R +	C11	CAPC1608L
22nF	CAP CER 22nF X7R +	C13	CAPC1608L
15nF	CAP CER 15nF X7R +	C14	CAPC1608L
4V7	BZX84C4V7LT1G - D	D1	SOT23_L
Bright Green	LED Bright Green 40	DL1	WL-SMCW
5A	Fuse 5.0A Fast Acting	F1	RESC3216
3 Pin Molex KK Hdr	CONN HEADER 3POS	H1	MOLEX_KK
4 Pin Molex KK Hdr	CONN HEADER 4POS	H2	MOLEX_KK
2 Pin Molex KK HDR	CONN HEADER 2POS	H3, H4, H5, H6	MOLEX_KK
LMC6484IN	Integrated Circuit	IC1, IC2	DIP794W5
UC3843BNG	Integrated Circuit	IC3	DIP794W5
1A max, Idc 0.3R,	Ferrite Bead, Rdc 0.3	L1	INDC3216L
2N7000G	Small Signal MOSFET	Q1	ONSC-TO-
150R	RES 150 OHM 1/10W	R1	RESC1608L
0R	RES 0.0 OHM 1/10W	R2, R4, R6, R10, R16	RESC1608L
1K8	RES 1.8K OHM 1/10W	R3	RESC1608L

64.00

