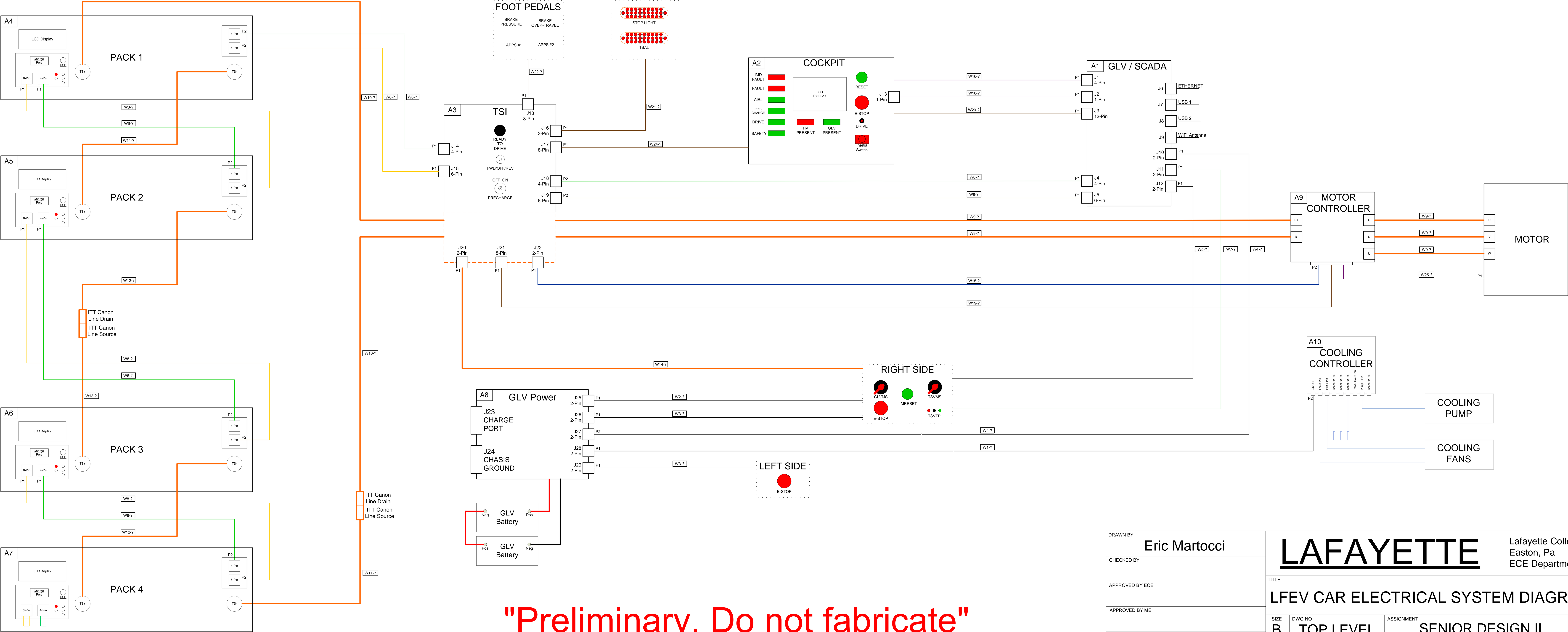


Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	
1	RED	24VDC +	[P1] [W1] GLV Power	1	RED	24VDC +	1	RED	24VDC Supply	1	RED	TSV HV	1	RED	TSV HV	1	BLK	GND	1	BLK	Brake 5VDC +	1	BLK	Brake 5VDC +	1	BLK	Brake 5VDC +	1	BLK	Brake 5VDC +	1	BLK	Brake 5VDC +	1	BLK	Brake 5VDC +
2	BLK	LV GND	[P2] DT06-2S	2	BLK	LV GND	2	BLK	24VDC Return	2	BLK	24VDC Return	2	RED	TSV HV	2	RED	0-5VDC Signal	2	RED	Brake Pressure	2	RED	Brake Pressure	2	RED	Brake Pressure	2	RED	Brake Pressure	2	RED	Brake Pressure	2	RED	Brake Pressure
1	RED	24VDC Supply	[P1] [W2] GLVMS	1	RED	24VDC Supply	1	RED	24VDC Supply	1	RED	TSV HV	1	RED	TSV HV	1	BLK	12VDC	1	BLK	Brake Over-Travel	3	BL	Brake Over-Travel	3	BL	Brake Over-Travel	3	BL	Brake Over-Travel	3	BL	Brake Over-Travel	3	BL	Brake Over-Travel
2	BLK	GLVMS	[P2] DT06-2S	2	BLK	GLVMS	2	BLK	24V +	2	BLK	24V +	2	RED	TSV HV	2	RED	FWD/REV Signal	3	BL	APPS 1 5VDC +	4	ORG	APPS 1 5VDC +	4	ORG	APPS 1 5VDC +	4	ORG	APPS 1 5VDC +	4	ORG	APPS 1 5VDC +	4	ORG	APPS 1 5VDC +
1	RED	To E-Stop	[P1] [W3] GLV Power	1	RED	To E-Stop	1	RED	To E-Stop	1	RED	TSV HV	1	RED	TSV HV	1	ORG	Drive Signal	4	ORG	APPS 2 5VDC +	5	YEL	APPS 2 5VDC +	5	YEL	APPS 2 5VDC +	5	YEL	APPS 2 5VDC +	5	YEL	APPS 2 5VDC +	5	YEL	APPS 2 5VDC +
2	BLK	From E-Stop	[P2] DT06-2S	2	BLK	From E-Stop	2	BLK	24VDC GND	2	BLK	24VDC GND	2	BLK	24VDC GND	2	BLK	GIGAVAC Coil	5	YEL	APPS 2 5VDC +	6	BRN	APPS 2 5VDC +	6	BRN	APPS 2 5VDC +	6	BRN	APPS 2 5VDC +	6	BRN	APPS 2 5VDC +	6	BRN	APPS 2 5VDC +
1	RED	From E-Stop	[P1] [W4] GLV Power	1	RED	From E-Stop	1	RED	From E-Stop	1	RED	TSV HV	1	RED	TSV HV	1	RED	To E-Stop	5	WHT	Pre-Charge LED	6	BRN	Pre-Charge LED	6	BRN	Pre-Charge LED	6	BRN	Pre-Charge LED	6	BRN	Pre-Charge LED	6	BRN	Pre-Charge LED
2	BLK	LV GND	[P2] DT06-2S	2	BLK	LV GND	2	BLK	24VDC GND	2	BLK	24VDC GND	2	YEL	CAN L	2	YEL	To Drive Button	6	BRN	Drive LED	7	RED/BLK	Drive LED	7	RED/BLK	Drive LED	7	RED/BLK	Drive LED	7	RED/BLK	Drive LED	7	RED/BLK	Drive LED
1	RED	MReset A	[P1] [W5] MReset	1	RED	MReset A	1	RED	MReset A	1	RED	TSV HV	1	RED	TSV HV	1	BLK	GND	7	WHT/BLK	GLV Present LED	8	RED/BLK	GLV Present LED	8	RED/BLK	GLV Present LED	8	RED/BLK	GLV Present LED	8	RED/BLK	GLV Present LED	8	RED/BLK	GLV Present LED
2	BLK	MReset B	[P2] DT06-2S	2	BLK	MReset B	2	BLK	24VDC GND	2	BLK	24VDC GND	2	YEL	CAN L	2	WHT	From Drive Button	8	RED/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED
1	WHT	SL1	[P1] [W6] Safety Loop	1	WHT	SL1	1	WHT	SL1	1	WHT	TSV HV	1	WHT	TSV HV	1	RED	VCC	8	RED/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED	9	GRN/BLK	GLV Present LED
2	BRN	SL2	[P2] DT06-4S	2	BRN	SL2	2	BRN	24V +	2	BRN	24V +	2	BRN	24V +	2	WHT	D-	9	GRN/BLK	GLV Present LED	10	OR/BLK	Spare	10	OR/BLK	Spare	10	OR/BLK	Spare	10	OR/BLK	Spare	10	OR/BLK	Spare
3	RED	AIRs+		3	RED	AIRs+	3	RED	24V +	3	RED	24V +	3	RED	24V +	3	GRN	D+	10	OR/BLK	Spare	11	OR/BLK	Spare	11	OR/BLK	Spare	11	OR/BLK	Spare	11	OR/BLK	Spare	11	OR/BLK	Spare
4	BLK	AIRs-		4	BLK	AIRs-	4	BLK	24V +	4	BLK	24V +	4	WHT	SCL	4	WHT	SCL	11	BL/BLK	Spare	12	BLK/WHT	Spare	12	BLK/WHT	Spare	12	BLK/WHT	Spare	12	BLK/WHT	Spare	12	BLK/WHT	Spare



"Preliminary, Do not fabricate"

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Eric Martocci

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DATE  
2016 - 12 - 6

LAFAYETTE

Lafayette College  
Easton, Pa  
ECE Department

TITLE  
LFEV CAR ELECTRICAL SYSTEM DIAGRAM

SIZE  
B

DWG NO  
TOP LEVEL

ASSIGNMENT  
SENIOR DESIGN II

REV  
0

COURSE  
TOP LEVEL

SHEET  
1 OF 1