

Design Review Staff Evaluation of Team ID 5

96
avg

Use the following scale: 5 – excellent 4 – good 3 – average 2 – below average 1 – poor / incomplete

CRITERION	SCORE	WGT	PTS	Comments
Project overview	1 2 3 4 (5)	X1	5	ok
Project-specific success criteria	1 2 3 4 (5)	X1	5	ok
Block diagram	1 2 3 4 (5)	X1	5	ok
Component selection rationale	1 2 3 4 (5)	X1	5	(only team that outlined constraints first...)
Packaging design	1 2 3 4 (5)	X1	5	better depiction of "helmet"? (looks like "flower pot")
Schematic/theory of operation	1 2 3 4 (5)	X4	20	nice summary of design considerations
PCB layout	1 2 3 4 (5)	X4	20	!!
Preliminary software design	1 2 3 4 (5)	X1	5	
Project completion timeline	1 2 3 4 (5)	X1	5	
Technical content	1 2 3 4 (5)	X2	10	very good
Quality and use of visuals	1 2 3 4 (5)	X1	5	
Organization/use of allocated time	1 2 3 (4) 5	X1	4	slight ding for
Professionalism/presentation style	1 2 3 (4) 5	X1	4	signing snafu
TOTAL			98	Maximum: 100

Comments:

excellent tech content

Completed by: Prof. Meyer

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Project overview	1 2 3 4 <u>5</u>	X1	<u>5</u>	
Project-specific success criteria	1 2 3 4 <u>5</u>	X1	<u>5</u>	PSSC #5 could probably stand to be reworded (retrieve stored graphics from memory)
Block diagram	1 2 3 4 <u>5</u>	X1	<u>5</u>	
Component selection rationale	1 2 3 4 <u>5</u>	X1	<u>5</u>	Do you have any power targets? (Battery life?) Excellent coverage of constraints
Packaging design	1 2 3 4 <u>5</u>	X1	<u>5</u>	Good coverage of design constraints (Inclusion of requirements is excellent)
Schematic/theory of operation	1 2 3 4 <u>5</u>	X4	<u>20</u>	See schematic for technical feedback
PCB layout *	1 2 3 4 <u>5</u>	X4	<u>20</u>	Inclusion of impedance matching was good. See layout for technical feedback
Preliminary software design	1 2 3 <u>4</u> 5	X1	<u>4</u>	More pre detail would be good here
Project completion timeline	1 2 3 4 <u>5</u>	X1	<u>5</u>	
Technical content	1 2 3 4 <u>5</u>	X2	<u>10</u>	
Quality and use of visuals	1 2 3 4 <u>5</u>	X1	<u>5</u>	
Organization/use of allocated time	1 2 3 4 <u>5</u>	X1	<u>5</u>	
Professionalism/presentation style	1 2 3 4 <u>5</u>	X1	<u>5</u>	
TOTAL			<u>99</u>	Maximum: 100

Comments:

* Use of test vias is great design practice—kudos!

Completed by: George Hadley

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CRITERION	SCORE	WGT	PTS	Comments
Project overview	1 2 3 4 5	X1	4	
Project-specific success criteria	1 2 3 4 5	X1	4	
Block diagram	1 2 3 4 5	X1	4	
Component selection rationale	1 2 3 4 5	X1	5	glad to see comparisons & constraints
Packaging design	1 2 3 4 5	X1	4	how is the weight & balance? (2)
Schematic/theory of operation	1 2 3 4 5	X4	20	0
PCB layout	1 2 3 4 5	X4	20	looks good, wait on Carlson explanation
Preliminary software design	1 2 3 4 5	X1	3	Good status, not much about design
Project completion timeline	1 2 3 4 5	X1	5	
Technical content	1 2 3 4 5	X2	8	
Quality and use of visuals	1 2 3 4 5	X1	5	
Organization/use of allocated time	1 2 3 4 5	X1	4	
Professionalism/presentation style	1 2 3 4 5	X1	4	
TOTAL			90	Maximum: 100

Comments:

- ① Why linear supplies if battery operated? Good intro overview.
- ② Dimensions? Glad to see prototype
- ③ Based on slider. Mounting holes?

Completed by: Mark Shum

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CRITERION	SCORE	WGT	PTS	Comments
Project overview	1 2 3 4 5	X1		
Project-specific success criteria	1 2 3 4 5	X1		
Block diagram	1 2 3 4 5	X1		Color contrast could be improved upon.
Component selection rationale	1 2 3 4 5	X1		Good job.
Packaging design	1 2 3 4 5	X1		
Schematic/theory of operation	1 2 3 4 5	X4		Detailed enough.
PCB layout	1 2 3 4 5	X4		
Preliminary software design	1 2 3 4 5	X1		
Project completion timeline	1 2 3 4 5	X1		Well planned.
Technical content	1 2 3 4 5	X2		
Quality and use of visuals	1 2 3 4 5	X1		Clear graphics
Organization/use of allocated time	1 2 3 4 5	X1		
Professionalism/presentation style	1 2 3 4 5	X1		
TOTAL		98	Maximum: 100	

Excellent!

Comments:

3.7V nominal on Li-ion battery enough for regulator?

Completed by: George Toh