

ID	i	Task Mode	Task Name	Duration	'12				Dec 2, '12		Dec 23, '12		Jan 13, '13		Feb 3, '13	
					W	T	F	S	S	M	T	W	T	F	S	S
1	✓	📌	Choose Team Roles	1 day												
2	✓	📌	System Design	15 days												
3	✓	📌	Create Code of Ethics Document	4 days												
4	✓	📌	Create Project Plan Document	1 day												
5	✓	📌	Determine Customer Needs	11 days												
6	✓	📌	Determine Engineering Specifications	11 days												
7	✓	📌	Create Work Breakdown Structure	1 day												
8	✓	📌	Create Functional Decomposition Document	4 days												
9	✓	📌	Create Methodology Analysis	4 days												
10	✓	📌	Create MCU Pugh Chart	1 day												
11	✓	📌	Create MPPT Analog vs Digital Pugh Chart	1 day												
12	✓	📌	Create MPPT Topology Pugh Chart	1 day												
13	✓	📌	Create One Page Summary Document	6 days												
14	✓	📌	Create Risk Management Document	6 days												
15	✓	📌	Obtain Necessary Test Equipment	6 days												
16	✓	📌	SDR Preparation	5 days												
17	✓	📌	Create Diagrams as Necessary	1 day												
18	✓	📌	System Design Review	1 day												
19	✓	📌	System Design Complete	0 days												
20	✓	📌	Detailed Design	41 days												
21	✓	📌	Capture Schematic	31 days												
22	✓	📌	Power Electronics	26 days												
23	✓	📌	Design MPPT Control	1 day?												
24	✓	📌	Design MPPT DC/DC Switch	1 day?												
25	✓	📌	Integrate MPPT	1 day?												
26	✓	📌	Design MCU Support Circuitry	7 days												

12/24

Project: MSD I Project Plan
Date: Mon 5/13/13

Task		External Milestone		Manual Summary Rollup	
Split		Inactive Task		Manual Summary	
Milestone		Inactive Milestone		Start-only	
Summary		Inactive Summary		Finish-only	
Project Summary		Manual Task		Deadline	
External Tasks		Duration-only		Progress	

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					W	T	F	S	S	M	T	W	T	F
27	✓	📌	MCU Support Electronics	1 day										
28	✓	📌	ADC Signal Conditioning	1 day										
29	✓	📌	System Integration	7 days										
30	✓	📌	Hardware Integration	1 day?										
31	✓	📌	Perform Electronic Safety Analysis	1 day										
32	✓	📌	Conduct NASA De-rating Review	1 day?										
33	✓	📌	Physical Implementation	9 days										
34	✓	📌	Develop Bill of Materials	1 day										
35	✓	📌	Layout PCB	1 day										
36	✓	📌	Create Gerber Files	1 day										
37	✓	📌	Create PCB and PCBA Drawings	1 day										
38	✓	📌	Telemetry (Health Status)	91 days										
39	✓	📌	Write Communications Libraries	1 day										
40	✓	📌	Write ADC Libraries	1 day										
41	✓	📌	Write Redundancy Libraries	1 day										
42	✓	📌	Prepare for Detailed Design Review	10 days										
43	✓	📌	Detailed Design Review	1 day										
44	✓	📌	Detailed Design Complete	1 day										
45	✓	📌	Fabricate PCB Boards	6 days										
46	✓	📌	Inspect PCB	1 day										
47	✓	📌	Order Components	6 days										
48	✓	📌	Board Bring-up	28 days										
49	✓	📌	Populate PCB	1 day										
50	✓	📌	Independently Bring-up Subsystems	1 day										
51	✓	📌	System Testing	32 days										

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ID	i	Task Mode	Task Name	Duration	Feb 24, '13		Mar 17, '13			Apr 7, '13		Apr 28, '13			May 19, '13		
					M	T	W	T	F	S	S	M	T	W	T	F	
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