

Name	Work	Week 41, 2011					Week 42, 2011					Week 43, 2011					Week 44, 2011					Week 45, 2011					Week 46, 2011					Week 47, 2011					Week 48, 2011					Week 49, 2011					Week 50, 2011					Week 51, 2011				
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22						
Deadlines																																																								
Opening lecture																																																								
First progress seminar																																																								
Second progress seminar																																																								
Final report																																																								
Final presentation																																																								
Acquire Equipment		50d 1h																																																						
Acquire camera		23d 1h																																																						
Acquire Schematic Parts		17d																																																						
Acquire final payload controller		5d																																																						
Acquire autopilot and basestation		5d																																																						
Payload Module		69d 7h																																																						
Camera module communication		8d 4h																																																						
Prototype camera module communication		5d 4h																																																						
Payload controller <-> camera module communication		3d																																																						
Image Encoding and Transmission		36d 4h																																																						
Basic Raw encoding/(JPEG?)		5d																																																						
Payload controller implementation		5d																																																						
Custom (compressed) encoding		10d																																																						
Matlab algorithm prototype		10d																																																						
JPEG Reordered Payload controller implementation		21d 4h																																																						
Huffman Table Build		2d 4h																																																						
Huffman Encoding/Decoding		2d 4h																																																						
JPEG Single Component Sender		5d																																																						
Extract JPEG header and payload data		11d 4h																																																						
Payload module construction		24d 6h																																																						
Payload breadboard prototype and debugging		5d 6h																																																						
Payload stripboard construction and debugging		3d																																																						
Payload PCB design		5d																																																						
Acquiring payload PCB		5d																																																						
Payload PCB construction and debugging		6d																																																						
Image recieve/viewing software		21d 2h																																																						
TCP/IP Basestation Communications		7d																																																						
Basic dummy server communication		4d																																																						
Basestation communications		3d																																																						
Decode Image		8d																																																						
Basic image decoding		2d																																																						
Ground Station Reordered JPEG decoder		6d																																																						
UI		6d 2h																																																						
Functional user interface		6d 2h																																																						
Integration		3d																																																						
Payload controller to autopilot/base station		3d																																																						
Background Research		19d																																																						
Camera selection		3d																																																						
Payload controller (e.g. microcontroller/FPGA) selection		4d																																																						
Communication protocols		3d																																																						
Image processing/compression		6d																																																						
Programming language		3d																																																						
Prepare presentation		10d																																																						
Progress seminar 1		3d																																																						
Progress seminar 2		3d																																																						
Final presentation		4d																																																						
Report Writing		10d																																																						
Whole System Testing		5d																																																						

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WBS	Name	Start	Finish	Work	Duration	Slack	Cost	Assigned to	% Complete
1	Deadlines	5 Oct	11 Jan		84d		0		0
1.1	Opening lecture	5 Oct	5 Oct	N/A	N/A	84d	0		0
1.2	First progress seminar	26 Oct	26 Oct	N/A	N/A	66d	0		0
1.3	Second progress seminar	30 Nov	30 Nov	N/A	N/A	27d	0		0
1.4	Final report	15 Dec	15 Dec	N/A	N/A	23d	0		0
1.5	Final presentation	11 Jan	11 Jan	N/A	N/A		0		0
2	Acquire Equipment	5 Oct	1 Nov	50d 1h	23d 1h	60d 6h	0		0
2.1	Acquire camera	5 Oct	1 Nov	23d 1h	23d 1h	34d 6h	0		0
2.2	Acquire Schematic Parts	5 Oct	24 Oct	17d	17d	41d	0		0
2.3	Acquire final payload controller	17 Oct	21 Oct	5d	5d	43d	0		0
2.4	Acquire autopilot and basestation	5 Oct	10 Oct	5d	5d	71d	0		0
3	Payload Module	5 Oct	25 Nov	69d 7h	45d	34d	0		0
3.1	Camera module communication	1 Nov	10 Nov	8d 4h	8d 4h	47d 2h	0		0
3.1.1	Prototype camera module communication	1 Nov	7 Nov	5d 4h	5d 4h	35d 2h	0		0
3.1.2	Payload controller <-> camera module communication	7 Nov	10 Nov	3d	3d	34d 2h	0		0
3.2	Image Encoding and Transmission	5 Oct	16 Nov	36d 4h	36d 5h	42d 2h	0		0
3.2.1	Basic Raw encoding/(JPEG?)	10 Nov	16 Nov	5d	5d	42d 2h	0		0
3.2.1.1	Payload controller implementation	10 Nov	16 Nov	5d	5d	34d 2h	0		0
3.2.2	Custom (compressed) encoding	5 Oct	15 Oct	10d	10d	69d	0		0
3.2.2.1	Matlab algorithm prototype	5 Oct	15 Oct	10d	10d	69d	0		0
3.2.3	JPEG Reordered Payload controller implementation	1 Nov	14 Nov	21d 4h	12d	44d	0		0
3.2.3.1	Huffman Table Build	3 Nov	5 Nov	2d 4h	2d 4h	37d 4h	0		0
3.2.3.2	Huffman Encoding/Decoding	5 Nov	8 Nov	2d 4h	2d 4h	38d	0		0
3.2.3.3	JPEG Single Component Sender	9 Nov	14 Nov	5d	5d	38d	0		0
3.2.3.4	Extract JPEG header and payload data	1 Nov	14 Nov	11d 4h	11d 4h	44d 3h	0		0
3.3	Payload module construction	1 Nov	25 Nov	24d 6h	21d 6h	34d	0		0
3.3.1	Payload breadboard prototype and debugging	1 Nov	7 Nov	5d 6h	5d 6h	35d	0		0
3.3.2	Payload stripboard construction and debugging	8 Nov	10 Nov	3d	3d	47d	0		0
3.3.3	Payload PCB design	8 Nov	12 Nov	5d	5d	34d	0		0
3.3.4	Aquiring payload PCB	14 Nov	18 Nov	5d	5d	34d	0		0
3.3.5	Payload PCB construction and debugging	19 Nov	25 Nov	6d	6d	34d	0		0
4	Image retrieve/viewing software	5 Oct	25 Nov	21d 2h	45d	34d	0		0
4.1	TCP/IP Basestation Communications	5 Oct	13 Oct	7d	8d	71d	0		0
4.1.1	Basic dummy server communication	5 Oct	8 Oct	4d	4d	75d	0		0
4.1.2	Basestation communications	11 Oct	13 Oct	3d	3d	71d	0		0
4.2	Decode Image	16 Nov	25 Nov	8d	8d	34d 2h	0		0
4.2.1	Basic image decoding	16 Nov	18 Nov	2d	2d	34d 2h	0		0
4.2.2	Ground Station Reordered JPEG decoder	18 Nov	25 Nov	6d	6d	34d 2h	0		0
4.3	UI	18 Nov	25 Nov	6d 2h	6d 2h	34d	0		0
4.3.1	Functional user interface	18 Nov	25 Nov	6d 2h	6d 2h	34d	0		0
5	Integration	16 Nov	19 Nov	3d	3d	44d 2h	0		0
5.1	Payload controller to autopilot/base station	16 Nov	19 Nov	3d	3d	44d 2h	0		0
6	Background Research	5 Oct	15 Oct	19d	10d	74d	0		0
6.1	Camera selection	5 Oct	7 Oct	3d	3d	81d	0		0
6.2	Payload controller (e.g. microcontroller/FPGA) selection	12 Oct	15 Oct	4d	4d	42d 7h	0		0
6.3	Communication protocols	5 Oct	7 Oct	3d	3d	81d	0		0
6.4	Image processing/compression	5 Oct	11 Oct	6d	6d	43d 7h	0		0
6.5	Programming language	5 Oct	7 Oct	3d	3d	81d	0		0
7	Prepare presentation	22 Oct	10 Jan	10d	69d		0		0
7.1	Progress seminar 1	22 Oct	25 Oct	3d	3d	66d	0		0
7.2	Progress seminar 2	25 Nov	28 Nov	3d	3d	37d	0		0
7.3	Final presentation	6 Jan	10 Jan	4d	4d		0		0
8	Report Writing	30 Nov	10 Dec	10d	10d	26d	0		0
9	Whole System Testing	26 Nov	1 Dec	5d	5d	34d	0		0