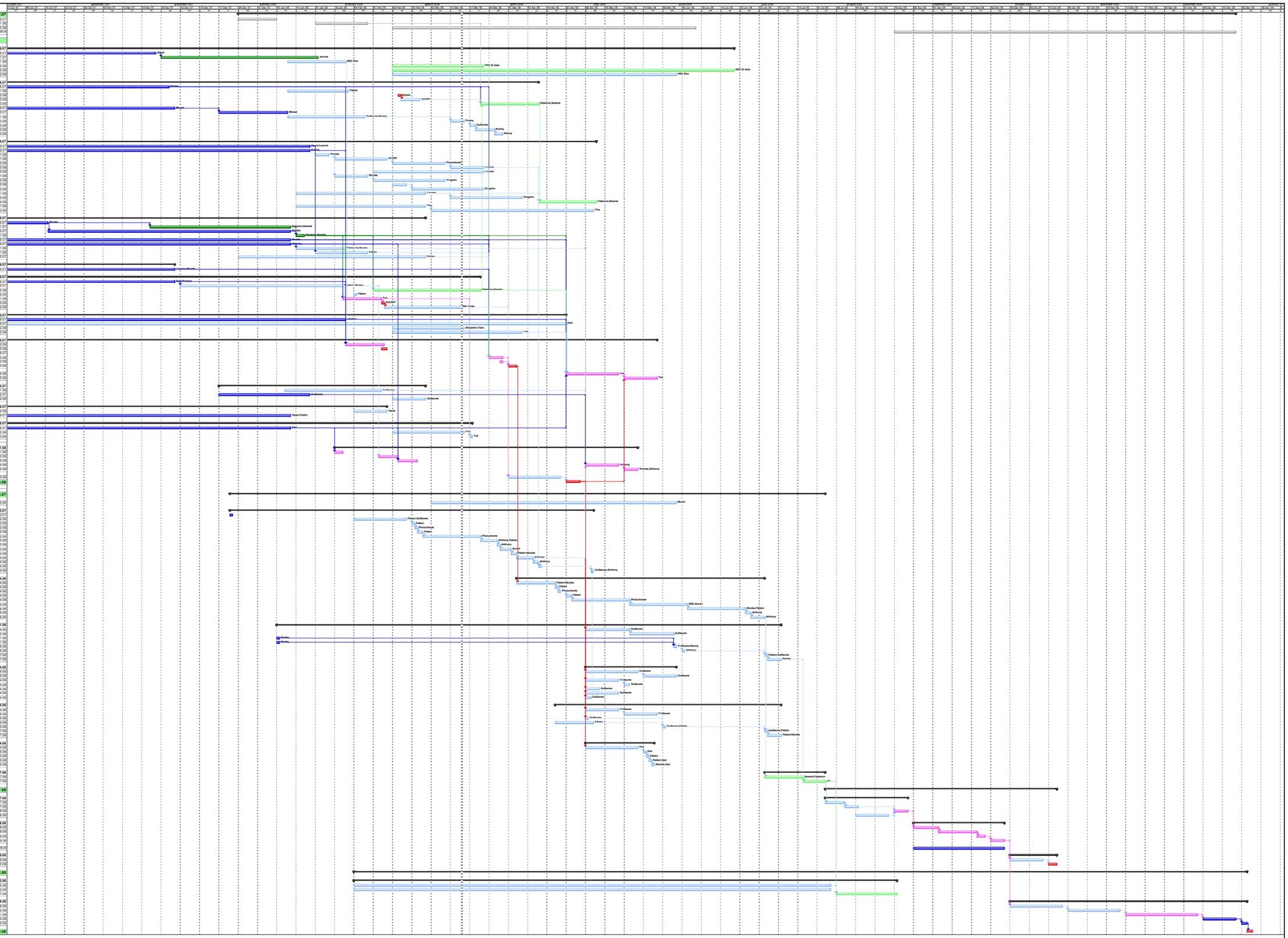
	Task Name	Duration	Start
1	**Academic Constraints**	**61 days?**	**Mon 24.12.07**
2	Christmas vacation	11 days?	Mon 24.12.07
3	End semestier vacation	15 days	Mon 21.01.08
4	Spring 08 semestier	80 days?	Mon 18.02.08
5	Fall 08 semestier	90 days?	Mon 18.08.08
6			
7	**IM Fabrication and Tests**		
8			
9	**COMS**	**203 days?**	**Fri 14.09.07**
10	COMS IM Board 1	51 days?	Fri 14.09.07
11	COMS SW integration ARM7 board 1	43 days	Mon 26.11.07
12	COMS IM board lab (2 mono)	15 days?	Fri 11.01.08
13	COMS SW int test ARM7 + MSP board (I2C Master, HK tl	25 days?	Mon 18.02.08
14	COMS SW updates	90 days?	Mon 18.02.08
15	Satellite test board for QM	75 days?	Mon 18.02.08
16			
17	**Payload**	**152 days?**	**Fri 14.09.07**
18	Payload IM board 1 (for elect test)	54 days?	Fri 14.09.07
19	Payload IM board 2 (for radiation test)	16 days?	Fri 11.01.08
20	Failure analysis	1 day?	Wed 20.02.08
21	PAYL CMI final layout (6 layers)	5 days	Thu 21.02.08
22	Payload SW MSP integration	15 days	Fri 21.03.08
23	Payload optical design	56 days?	Fri 14.09.07
24	Optical test bed	21 days	Mon 17.12.07
25	Payload structural optical IM fabrication	20 days	Fri 11.01.08
26	Optics & detector positioning test	5 days	Mon 10.03.08
27	Payload vib test	2 days	Mon 17.03.08
28	Detector characterization tests	5 days	Wed 19.03.08
29	Optical Thermal tests	3 days	Wed 26.03.08
30			
31	**ADCS**	**167 days?**	**Fri 14.09.07**
32	ADCS IM Board (micro-C)	93 days?	Fri 14.09.07
33	Sun sensors characterised + electronics	93 days?	Fri 14.09.07
34	Magnetometer electronics final design	5 days	Mon 21.01.08
35	ADCS IM final layout (6 layers)	15 days	Mon 28.01.08
36	ADCS IM Fabrication	15 days	Mon 18.02.08
37	IM component mounting and elect test	10 days	Mon 10.03.08
38	ADCS Soft MSP sensor calibration compensation	30 days?	Mon 11.02.08
39	Test board for magnetometers	10 days	Mon 28.01.08
40	Magnetometers characterization	20 days	Mon 11.02.08
41	Test board for gyroscopes (5V converter + ADC)+socket	5 days	Mon 18.02.08
42	Gyroscopes characterization	20 days	Mon 25.02.08
43	Magnetotorquers QM Fabrication (6)	35 days?	Mon 14.01.08
44	Magnetotorquers tests	20 days	Mon 10.03.08
45	ADCS SW CMD I2C integration	15 days	Fri 11.04.08
46	ADCS Control Algo on COMS Atmel + tests	35 days?	Mon 14.01.08
47	ADCS Determination Algo on COMS Atmel + tests	43 days?	Mon 03.03.08
48			
49	**EPS**	**123 days?**	**Fri 14.09.07**
50	EPS PM IM board 1 (spot elect tests)	22 days?	Fri 14.09.07
51	EPS PM IM SW integration	39 days	Thu 22.11.07
52	EPS PM board 2,3 (rad + other tests)	66 days?	Tue 16.10.07
53	EPS PM IM 2,3 SW integration	3 days	Mon 14.01.08
54	EPS MB IM board (1)	88 days?	Fri 14.09.07
55	Panels: solar cells bonding final design & tests	88 days?	Fri 14.09.07
56	Panels: QM layout (sa elect, sc footprint, mech, connector	14 days?	Mon 14.01.08
57	Connection board	15 days	Mon 21.01.08
58	Battery board	51 days?	Mon 24.12.07
59			
60	**Beacon**	**56 days?**	**Fri 14.09.07**
61	Beacon IM board (3)	56 days?	Fri 14.09.07
62			
63	**COM**	**137 days?**	**Fri 14.09.07**
64	COM IM board RF mono micro-C (for RF tests)	56 days?	Fri 14.09.07
65	COM IM integrated board (3)	45 days	Mon 03.12.07
66	COM IM SW integration	29 days	Mon 11.02.08
67	Test board (link with PC)	1 day?	Mon 04.02.08
68	Test RF EPS Beacon COM + GS	10 days	Thu 31.01.08
69	COM design review	1 day	Thu 14.02.08
70	COM CM Final Layout (6 layers)	20 days	Fri 15.02.08
71			
72	**Ground segment**	**158 days?**	**Fri 14.09.07**
73	GS Fribourg	102 days?	Fri 14.09.07
74	GS EPFL	158 days?	Fri 14.09.07
75	MC software + front end (yann)	20 days?	Mon 18.02.08
76	GS software (integrated)	35 days?	Mon 18.02.08
77			
78	**Systems - Electrical**	**163 days?**	**Fri 14.09.07**
79	Radiation tests	10 days	Fri 01.02.08
80	Flight Software HK Functions Review	2 days	Thu 14.02.08
81	IM EDT procedures	1 day?	Fri 14.09.07
82	IM - Syst Electrical Tests IEDT	5 days	Mon 24.03.08
83	EMC tests	1 day	Fri 28.03.08
84	PCB Schematic Review	3 days	Mon 31.03.08
85			
86	GS-SS integrated RF and data test (hard wired)	15 days	Mon 21.04.08
87	GS-SS Balloon test (wireless)	10 days	Mon 12.05.08
88			
89	**Structures**	**57 days?**	**Mon 17.12.07**
90	Structural IM2	25 days	Thu 10.01.08
91	Battery box(es) IM2	27 days?	Mon 17.12.07
92	Kill switches	10 days?	Mon 18.02.08
93			
94	**Thermal**	**113 days?**	**Fri 14.09.07**
95	Spacers design	10 days?	Mon 04.02.08
96	Panels surface design	88 days	Fri 14.09.07
97			
98	**ADS**	**134 days?**	**Fri 14.09.07**
99	ADS IM with PCB	88 days?	Fri 14.09.07
100	ADS IM2 (close to QM)	20 days?	Mon 18.02.08
101	Antenna VSWR parameter test	1 day?	Mon 17.03.08
102			
103			
104	**Systems - Mechanical**	**80 days**	**Mon 28.01.08**
105	ADS thermal test	3 days	Mon 28.01.08
106	COM thermal characterization	5 days	Wed 13.02.08
107	ADS & Solar Cells vib test	5 days	Wed 20.02.08
108	TVC test in Biem (Qual test trial)	10 days	Mon 28.04.08
109	Vib test on IM2 in Emmen(Qual test trial)	5 days	Mon 12.05.08
110			
111	COR Documentation	15 days	Mon 31.03.08
112	**Critical Design Review**	**5 days**	**Mon 21.04.08**
113			
114			
115	**QM Fabrication and Subsystem Assembly**	**56 days?**	**Fri 21.12.07**
116			
117	QM test procedures	65 days	Mon 03.03.08
118			
119	**FACES, ADS, COMS, BEAC**	**96 days?**	**Fri 21.12.07**
120	Solar cell w/ coverglass&silverstrips delivery	1 day?	Fri 21.12.07
121	Layout preparations	15 days	Mon 04.02.08
122	Fabrication files, preparation and sending	1 day	Mon 26.02.08
123	Fabrication files, analysis by manufacturer	1 day	Tue 26.02.08
124	Price negotiation	2 days	Wed 27.02.08
125	Fabrication and delivery	15 days	Fri 29.02.08
126	Solar cells and connectors soldering at LPM	4 days	Fri 21.03.08
127	Sun sensors wire bonding at LPM	1 day	Thu 27.03.08
128	Electronics soldering	2 days	Fri 28.03.08
129	Electrical testing	2 days	Tue 01.04.08
130	Bake out	4 days	Thu 03.04.08
131	Conformal coating	2 days	Wed 09.04.08
132	Magnetorquers adhesive bonding	1 day	Fri 11.04.08
133	Radiation shielding adhesive bonding	1 day	Wed 30.04.08
134			
135	**MB, EPS, ADCS, PL, COM, CB, BB (7 PCBs)**	**64 days**	**Thu 03.04.08**
136	Layout modifications	10 days	Thu 03.04.08
137	Fabrication files, preparation and sending	1 day	Thu 17.04.08
138	Fabrication files, analysis by manufacturer	1 day	Fri 18.04.08
139	Price negotiation	2 days	Mon 21.04.08
140	Fabrication and delivery	15 days	Wed 23.04.08
141	Electronics soldering	15 days	Wed 14.05.08
142	Electrical testing of each board	15 days	Wed 04.06.08
143	Bake out	2 days	Wed 25.06.08
144	Conformal coating	3 days	Fri 27.06.08
145			
146	**Payload System**	**131 days**	**Mon 07.01.08**
147	Mechanical parts manufacturing	12 days	Mon 28.04.08
148	Mechanical parts blackening	12 days	Wed 14.05.08
149	Lens delivery	1 day	Mon 07.01.08
150	Fiber delivery	1 day	Mon 07.01.08
151	PL assembly	1 day	Fri 30.05.08
152	PL bake out	1 day	Mon 02.06.08
153	Electrical, mechanical and optical assembly	1 day	Wed 02.07.08
154	Alignment test (optics + detector)	3 days	Thu 03.07.08
155			
156	**Structural parts**	**25 days**	**Mon 28.04.08**
157	Monoblock frame manufacturing	15 days	Mon 28.04.08
158	Monoblock frame hard anodizing	10 days	Mon 19.05.08
159	Kill-switch parts manufacturing	10 days	Mon 28.04.08
160	Kill-switch assembly and test	2 days	Mon 12.05.08
161	Spacers manufacturing	5 days	Mon 28.04.08
162	Stress reliefs manufacturing	10 days	Mon 28.04.08
163	Sheding plates manufacturing	2 days	Mon 28.04.08
164			
165	**Battery subassembly**	**58 days**	**Thu 17.04.08**
166	Battery box manufacturing	10 days	Mon 28.04.08
167	Battery box blackening??	10 days	Mon 12.05.08
168	Copper plate manufacturing	1 day	Mon 28.04.08
169	Batteries delivery	10 days	Thu 17.04.08
170	Batteries gluing & sealing	1 day	Mon 26.05.08
171	Battery subsystem assembly	1 day	Wed 02.07.08
172	Battery subassembly electrical test	3 days	Thu 03.07.08
173			
174	**Antenna deployment Subsystem**	**19 days**	**Mon 28.04.08**
175	ADS mechanical part manufacturing	15 days	Mon 28.04.08
176	Antennas Kapton coating	1 day	Mon 19.05.08
177	Antennas RF connection	1 day	Tue 20.05.08
178	ADS assembly	1 day	Wed 21.05.08
179	ADS deployment test	1 day	Thu 22.05.08
180			
181	**Flight software integration**	**16 days**	**Wed 02.07.08**
182	EPS, COMS, COM, ADCS soft integration	10 days	Wed 02.07.08
183	Payload soft integration	6 days	Wed 16.07.08
184			
185	**QM Integration and Test**	**60 days**	**Thu 24.07.08**
186			
187	**Final Assembly**	**22 days**	**Thu 24.07.08**
188	Cabling	5 days	Thu 24.07.08
189	Final assembly at EPFL	3 days	Thu 31.07.08
190	Integrated electrical and data test at EPFL	5 days	Mon 18.08.08
191	Sufriner break	10 days	Mon 04.08.08
192			
193	**Qualification Tests**	**25 days**	**Mon 25.08.08**
194	Vib+Shock tests at AlpinFerk in Berlin + IEDT+Algrim	7 days	Mon 25.08.08
195	TVC + ADS test at Uni Biem	10 days	Wed 03.09.08
196	Satellite mission control Data test	3 days	Wed 17.09.08
197	Compatibility RF test (GS - Satellite)	5 days	Mon 22.09.08
198			
199	Mass Dummy Fabrication	25 days	Mon 25.08.08
200			
201	**QR**	**13 days**	**Mon 29.09.08**
202	QR documentation	10 days	Mon 29.09.08
203	Review	3 days	Mon 13.10.08
204			
205	**FM Fabrication, Assembly and Test**	**32 days?**	**Mon 04.02.08**
206			
207	**Flight Models Fabrication**	**141 days?**	**Mon 04.02.08**
208	PCB Fabrication	125 days?	Mon 04.02.08
209	Mechanical Fabrication	125 days?	Mon 04.02.08
210	Software Integration	16 days	Mon 28.07.08
211			
212	**Final Assembly and Tests**	**62 days**	**Mon 29.09.08**
213	Fabrication updates	15 days	Mon 29.09.08
214	Final Assembly	15 days	Mon 20.10.08
215	FM acceptance tests	20 days	Mon 10.11.08
216	FM AR documentation	10 days	Mon 08.12.08
217	AR	2 days	Mon 22.12.08
218			
219	**Ready for shipment**	**2 days**	**Wed 24.12.08**



Project: SS-C-SET-1-0-Fabrication and
Date: Fri 14.03.08

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline