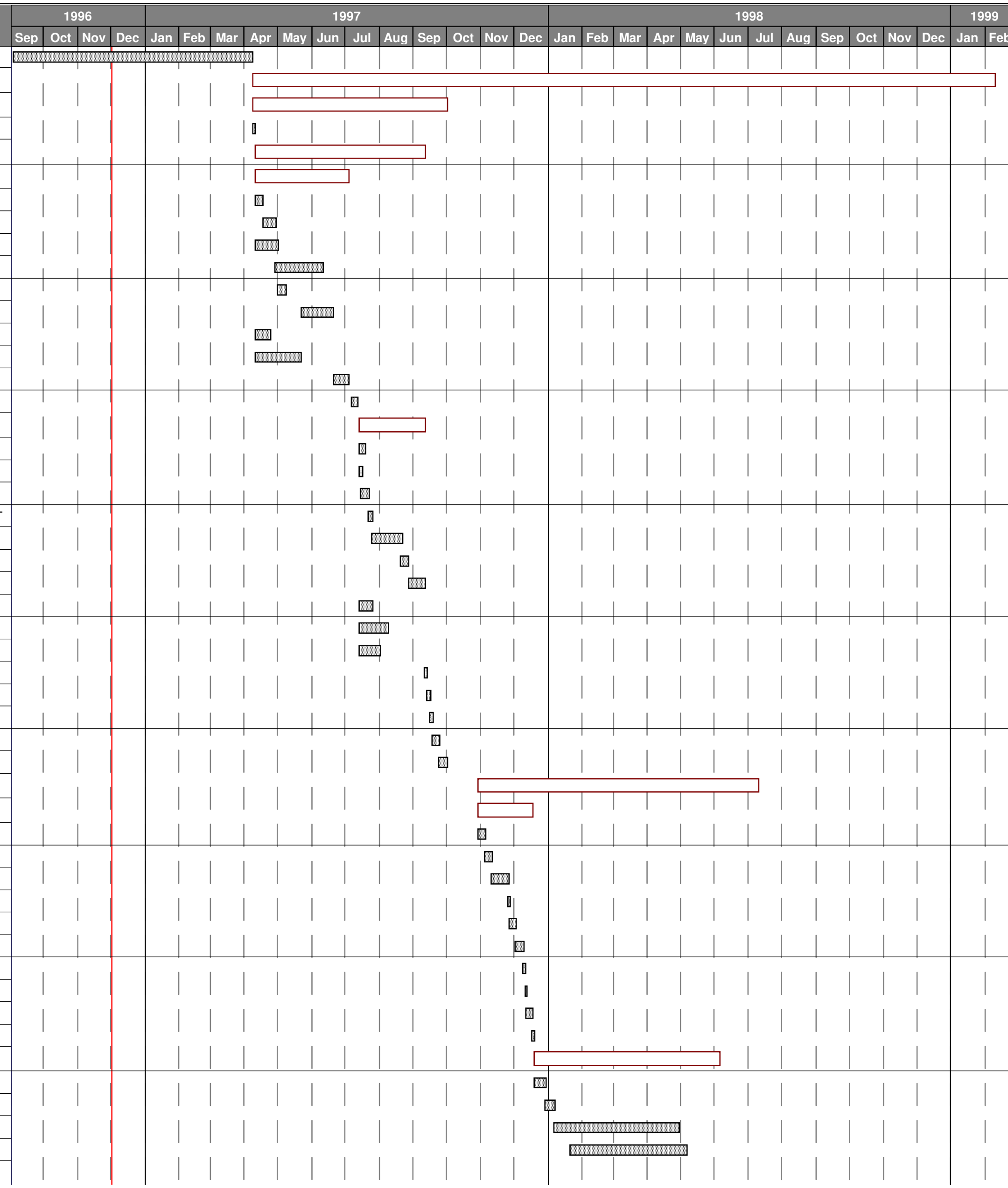
NITEOWL

Ro Nu	Task Name	Duration	Resources
1	Proposal Submission and Approval	150.00d	
2	**Project**	**465.50d**	
3	**PHASE A**	**123.50d**	
4	Requirements Definition	2.00d	Steele
5	**Preliminary Experiment Design**	**107.00d**	
6	**Experiment Modelling**	**60.00d**	
7	Sensitivity Evaluation	5.00d	PC & IDL, Steele, Johnston
8	Optics Raytracing and Optimization	8.00d	Steele, Johnston
9	Parachute/Payload Dynamics Study	15.00d	Grad Student (Bugg), Smolyakov
10	Structural/Thermal Modelling	30.00d	Bugg, Grad Student
11	Instrument Modelling	5.00d	Smolyakov
12	Synthetic Data Preparation	20.00d	Grad Student (Dolovich), Smolyakov
13	Calibration Procedures Study	10.00d	Koustov, Smolyakov, Johnston
14	Algorithm Development - Spectral Inversion	30.00d	Grad Student (Dolovich), Steele, Srinivasan, Johnston
15	Data Compression	10.00d	Grad Student (Bolton), Srinivasan
16	Requirements Review	5.00d	Steele, Sniezek, Bristol
17	**Experiment Specification and Description**	**42.00d**	
18	Optics (including baffling)	5.00d	Steele, Ivanov, Johnston
19	Detector System	2.00d	Grad Student (Bolton), Steele, SCI-TEC
20	Data Compression / Handling	5.00d	Grad Student (Bolton), Srinivasan, SCI-TEC
21	Environment Monitoring Including Ozonesonde	3.00d	Grad Student (Bugg), Grad Student (Bolton), Bristol, SCI-T
22	Electronics	20.00d	Grad Student (Bolton), SCI-TEC
23	Telemetry Interface	5.00d	Grad Student (Bolton), Bristol, SCI-TEC
24	Power Supply	10.00d	Grad Student (Bolton), Bristol, SCI-TEC
25	Data Storage	10.00d	Koustov, Bristol, SCI-TEC
26	Mechanical System and Payload Interface	20.00d	Grad Student (Bugg), Bristol, SCI-TEC
27	Tomographic Analysis of Synthetic Data	15.00d	Grad Student (Dolovich), Smolyakov, Soteros
28	Detailed Scheduling	1.50d	Steele, Sniezek
29	Detailed Management	1.00d	Steele, Sniezek
30	Detailed Cost Analysis	2.00d	Steele, Sniezek
31	Detailed Risk Analysis	5.00d	Grad Student (Bolton), Steele, Sniezek
32	Preliminary Design Review	5.00d	Steele, Sniezek
33	**PHASE B**	**175.00d**	
34	**Experiment Implementation**	**33.00d**	**SCI-TEC, IO**
35	Layout	4.00d	SCI-TEC (CAD), SCI-TEC (ME)
36	Imaging Spectrograph (IS) Including Readout	4.00d	SCI-TEC (CAD), SCI-TEC (EE), SCI-TEC (ME)
37	Power Supply	10.00d	SCI-TEC (CAD), SCI-TEC (EE)
38	Ozonesonde	1.00d	SCI-TEC (CAD), SCI-TEC (ME)
39	Environment Monitoring	3.00d	SCI-TEC (CAD), SCI-TEC (EE), SCI-TEC (ME)
40	Data Compression Firmware / Hardware	5.00d	SCI-TEC (CAD), SCI-TEC (PA)
41	Electrical Interface	2.00d	SCI-TEC (CAD), SCI-TEC (EE)
42	Mechanical Structure	1.00d	SCI-TEC (CAD), Bugg, SCI-TEC (ME)
43	Mechanical Interface	3.00d	SCI-TEC (CAD), SCI-TEC (ME)
44	Critical Design Review	2.00d	CSA, Steele, Sniezek, SCI-TEC (EE), SCI-TEC (ME)
45	**Experiment Integration and Test**	**115.00d**	
46	Generate Parts List	5.00d	
47	Generate Requisitions	5.00d	
48	Parts Delivery	80.00d	
49	Inspection and Testing of Parts	75.00d	



50	Integration of Parts into Sub-systems	50.00d	
51	Testing of Components and Sub-systems	30.00d	
52	Integration of Sub-systems	20.00d	
53	Test Developing System (and Calibrating)	5.00d	
54	**Experiment Calibration**	**20.00d**	
55	Imaging Spectrograph Calibration	15.00d	Steele, Koustov, Ivanov
56	Attitude Video Camera (AVC) Calibration	5.00d	Bristol, SCI-TEC, IO
57	Calibration of AVC and IS Relative Orientation	5.00d	Bristol, SCI-TEC, IO
58	Instrument Test Review	5.00d	SCI-TEC, IO
59	**PHASE C**	**222.00d**	
60	Payload Design	10.00d	
61	Critical Design Review	5.00d	CSA, Bristol, SCI-TEC, IO
62	**Payload Manufacture**	**150.00d**	
63	Materials Acquisition	60.00d	Bristol, SCI-TEC
64	Assembly	60.00d	Bristol
65	Testing	30.00d	Bristol
66	**Payload Integration**	**55.00d**	
67	Experiment Transfer to Integration Facility	5.00d	Bristol, SCI-TEC
68	Electrical Testing	10.00d	Bristol, SCI-TEC
69	Payload Integration	10.00d	Bristol, SCI-TEC
70	Payload Testing	30.00d	Bristol, SCI-TEC
71	Mission Readiness Review	2.00d	Bristol, SCI-TEC, IO
72	**PHASE D**	**65.00d**	
73	**Launch Preparation**	**40.00d**	
74	Rocket Motor Acquisition	5.00d	Bristol, IO, Akjuit
75	Transfer Payload and Rocket to Launch Site	5.00d	Bristol, IO, Akjuit
76	Launch Support Equipment Acquisition	5.00d	Bristol, IO, Akjuit
77	Rocket Fin Acquisition	5.00d	Bristol, IO, Akjuit
78	Rocket Fin Installation	5.00d	Bristol, IO, Akjuit
79	Payload and Motor Integration	5.00d	Bristol, IO, Akjuit
80	System Test	5.00d	Bristol, IO, Akjuit
81	Permit and License Acquisition	5.00d	Bristol, IO, Akjuit
82	Flight Readiness Review	5.00d	Bristol, SCI-TEC, IO, Akjuit
83	**Launch Operation**	**20.00d**	
84	Launch with Full Telemetry Recording	5.00d	Bristol, IO, Akjuit
85	Payload Recovery	5.00d	Bristol, IO, Akjuit
86	Telemetry Decommutation and Data Provision	5.00d	Bristol, IO, Akjuit
87	Data Validation	5.00d	Bristol, IO, Akjuit