

CougSat-1											
V1.4.0						End: 30-Jun-20					
Subsystem	Component	Type	Start	Design		Implement Part 1		Implement Part 2		Test	
Self-contained system within the satellite	Subassembly of the subsystem	Primary discipline	Component commencing	Outlining, prototyping, planning, diagraming, etc.		Schematic, mCAD, front end, interfacing, etc.		Board layout, machining, backend, assembly, etc.		Functional, performance, validation, etc.	
	CougSat-1 Flight Unit	Assembly	29-Mar-20	2 weeks	12-Apr-20	2 weeks	26-Apr-20	1 weeks	3-May-20	6 weeks	14-Jun-20
EPS	Mainboard V2.3	Hardware	15-Mar-20	1 weeks	22-Mar-20	1 weeks	29-Mar-20	4 weeks	26-Apr-20	1 weeks	3-May-20
	Solar Panel V2.1	Hardware	1-Aug-18	2 weeks	15-Aug-18	74 weeks	15-Jan-20	3 weeks	2-Feb-20	8 weeks	29-Mar-20
	PMIC	Software	24-Oct-18	3 weeks	14-Nov-18	72 weeks	29-Mar-20	6 weeks	10-May-20	4 weeks	7-Jun-20
Avionics	Mainboard V1.1	Hardware	31-Oct-18	3 weeks	21-Nov-18	43 weeks	18-Sep-19	20 weeks	2-Feb-20	6 weeks	15-Mar-20
	ADCS Controller	Software	26-Sep-18	58 weeks	6-Nov-19	16 weeks	26-Feb-20	9 weeks	26-Apr-20	6 weeks	7-Jun-20
	IFJR Controller	Software	3-Apr-19	31 weeks	6-Nov-19	16 weeks	26-Feb-20	7 weeks	12-Apr-20	4 weeks	10-May-20
	IHU	Software	26-Sep-18	58 weeks	6-Nov-19	16 weeks	26-Feb-20	11 weeks	10-May-20	4 weeks	7-Jun-20
Communications	Comms PCB V1.2	Hardware	23-Oct-19	2 weeks	6-Nov-19	2 weeks	20-Nov-19	11 weeks	2-Feb-20	4 weeks	1-Mar-20
	Comms Controller	Software	6-Feb-19	31 weeks	11-Sep-19	26 weeks	11-Mar-20	7 weeks	26-Apr-20	6 weeks	7-Jun-20
	+X Panel V1.0	Hardware	26-Sep-18	4 weeks	24-Oct-18	23 weeks	3-Apr-19	35 weeks	4-Dec-19	9 weeks	2-Feb-20
	-Z Panel V1.0	Hardware	31-Oct-18	4 weeks	28-Nov-18	43 weeks	25-Sep-19	19 weeks	2-Feb-20	6 weeks	15-Mar-20
	Ground Station V1.0	Hardware	29-Aug-18	8 weeks	24-Oct-18	4 weeks	21-Nov-18	67 weeks	1-Mar-20	2 weeks	15-Mar-20
	Ground Computer	Software	23-May-18	68 weeks	11-Sep-19	16 weeks	1-Jan-20	12 weeks	25-Mar-20	6 weeks	6-May-20
Payload	Camera PCB V1.1	Hardware	24-Oct-18	44 weeks	28-Aug-19	4 weeks	25-Sep-19	8 weeks	20-Nov-19	11 weeks	2-Feb-20
	Germination PCB V1.0	Hardware	24-Oct-18	46 weeks	11-Sep-19	21 weeks	2-Feb-20	6 weeks	15-Mar-20	6 weeks	26-Apr-20
Mechanical	Structure V1.1	Hardware	16-Feb-20	2 weeks	1-Mar-20	2 weeks	15-Mar-20	4 weeks	12-Apr-20	2 weeks	26-Apr-20
	Germination	Hardware	23-May-18	7 weeks	11-Jul-18	86 weeks	1-Mar-20	4 weeks	29-Mar-20	4 weeks	26-Apr-20

Milestones		
Name	Description	Date
FU Integration	Assembly of all flight ready subsystems and components	26-Apr-20
FU Day in the Life Test	A duration test of the flight unit in simulated space environment	3-May-20
FRR	Review of the flight unit to determine its readiness to fly	21-Jun-20
MRR	Review of the mission to determine its readiness to execute	28-Jun-20
ILC	Initial launch capabilities	30-Jun-20

