Subsystem — Self-contained system within the satellite	Component — Subassembly of the subsystem	Type — Primary discipline	Start — Component commencing	Design — Outlining, prototyping, planning, diagraming, etc.		Implement Part 1 — Schematic, mCAD, front end, interfacing, etc.		Implement Part 2 — Board layout, machining, backend, assembly, etc.		Test — Functional, performance, validation, etc.	
CougSat-1	Engineering Model	Assembly	2-May-18	3 weeks	23-May-18	82 weeks	18-Dec-19	1 weeks	25-Dec-19	5 weeks	29-Jan-20
	Flight Unit	Assembly	25-Dec-19	4 weeks	22-Jan-20	4 weeks	19-Feb-20	8 weeks	15-Apr-20	12 weeks	27-May-20
EPS	Mainboard V2.1	Hardware	23-May-18	2 weeks	6-Jun-18	8 weeks	1-Aug-18	18 weeks	5-Dec-18	17 weeks	3-Apr-19
	Mainboard V2.2	Hardware	5-Dec-18	17 weeks	3-Apr-19	2 weeks	17-Apr-19	6 weeks	29-May-19	4 weeks	26-Jun-19
	Solar Panel	Hardware	1-Aug-18	2 weeks	15-Aug-18	8 weeks	10-Oct-18	26 weeks	10-Apr-19	8 weeks	5-Jun-19
	Backplane V2.0	Hardware	29-Aug-18	2 weeks	12-Sep-18	3 weeks	3-Oct-18	10 weeks	12-Dec-18	11 weeks	27-Feb-19
	Backplane V3.0	Hardware	12-Dec-18	11 weeks	27-Feb-19	2 weeks	13-Mar-19	6 weeks	24-Apr-19	2 weeks	8-May-19
	PMIC	Software	24-Oct-18	3 weeks	14-Nov-18	20 weeks	3-Apr-19	8 weeks	29-May-19	8 weeks	24-Jul-19
Avionics	Mainboard V1.1	Hardware	31-Oct-18	3 weeks	21-Nov-18	19 weeks	3-Apr-19	16 weeks	24-Jul-19	8 weeks	18-Sep-19
	ADCS Controller	Software	26-Sep-18	10 weeks	5-Dec-18	17 weeks	3-Apr-19	14 weeks	10-Jul-19	8 weeks	4-Sep-19
	IFJR Controller	Software	3-Apr-19	8 weeks	29-May-19	8 weeks	24-Jul-19	12 weeks	16-Oct-19	8 weeks	11-Dec-19
	IHU	Software	26-Sep-18	14 weeks	2-Jan-19	20 weeks	22-May-19	8 weeks	17-Jul-19	8 weeks	11-Sep-19
Communications	Comms PCB V1.0	Hardware	29-Aug-18	11 weeks	14-Nov-18	8 weeks	9-Jan-19	12 weeks	3-Apr-19	8 weeks	29-May-19
	Comms PCB V1.1	Hardware	3-Apr-19	8 weeks	29-May-19	2 weeks	12-Jun-19	6 weeks	24-Jul-19	4 weeks	21-Aug-19
	Comms Controller	Software	6-Feb-19	8 weeks	3-Apr-19	4 weeks	1-May-19	12 weeks	24-Jul-19	8 weeks	18-Sep-19
	+X Panel V1.0	Hardware	26-Sep-18	3 weeks	17-Oct-18	24 weeks	3-Apr-19	6 weeks	15-May-19	6 weeks	26-Jun-19
	-Z Panel V1.0	Hardware	31-Oct-18	1 weeks	7-Nov-18	21 weeks	3-Apr-19	6 weeks	15-May-19	6 weeks	26-Jun-19
	Ground Station V1.0	Hardware	29-Aug-18	8 weeks	24-Oct-18	4 weeks	21-Nov-18	22 weeks	24-Apr-19	2 weeks	8-May-19
	Ground Computer	Software	23-May-18	3 weeks	13-Jun-18	44 weeks	17-Apr-19	20 weeks	4-Sep-19	8 weeks	30-Oct-19
Payload	Camera PCB V1.1	Hardware	24-Oct-18	26 weeks	24-Apr-19	4 weeks	22-May-19	8 weeks	17-Jul-19	4 weeks	14-Aug-19
	Germination PCB V1.0	Hardware	24-Oct-18	44 weeks	28-Aug-19	4 weeks	25-Sep-19	8 weeks	20-Nov-19	4 weeks	18-Dec-19
Mechanical	Structure	Hardware	23-May-18	3 weeks	13-Jun-18	36 weeks	20-Feb-19	12 weeks	15-May-19	8 weeks	10-Jul-19
	Germination	Hardware	23-May-18	7 weeks	11-Jul-18	40 weeks	17-Apr-19	12 weeks	10-Jul-19	8 weeks	4-Sep-19

Milestones

Name	Description	Date
EM Integration	Assembly of all subsystems and components. Requires: all hardware done	18-Dec-19
EM Day in the Life Test	A duration test of the satellite in simulated space environment. Requires: all software done	25-Dec-19
FU Integration	Assembly of all flight ready subsystems and components	19-Feb-20
FU Day in the Life Test	A duration test of the flight unit in simulated space environment	15-Apr-20
FRR	Review of the flight unit to determine its readiness to fly	29-Apr-20
MRR	Review of the mission to determine its readiness to execute	13-May-20
ILC	Initial launch capabilities	27-May-20