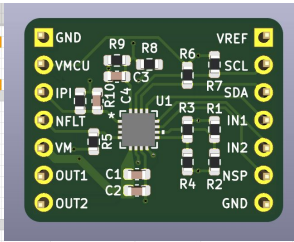
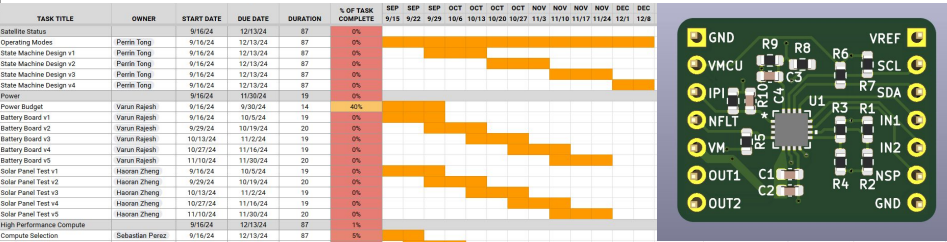


# Updates



Typical Orbit		Orbit Time:	90	Minutes										
Team	Subsystem	Count	Supply Voltage (V)	Quiescent Current (A)	Typical Current (A)	Max Current (A)	Typical Usage Time / Orbit (%)	Worst Case Usage Time / Orbit (%)	Minimum Energy / Orbit (Wh)	Typical Energy / Orbit (Wh)	Worst Case Energy / Orbit (Wh)			
Avionics	RP2040	1	3.3	0.00100	0.03000	0.05000	100	100	0.0050	0.1485	0.2970			
Vision	Camera (OV5640)	6	1.5	0.00002	0.14000	0.20000	5	20	0.0000	0.0945	0.5400			
Vision	Jetson Orin	1	12.0	0.25000	0.50000	0.83333	10	50	0.4500	0.9000	7.5000			
GNC	GPS (SI210V8)	1	3.3	0.04000	0.04000	0.04000	20	100	0.0396	0.0396	0.1980			
Comms/Ops	LoRA (433M30S)	1	5.0	0.00100	0.02000	0.63000	5	15	0.0004	0.0075	0.7088			
Vision	Image Pre-Processor (STM32H7)	6	3.3	0.00100	0.05000	0.20000	20	100	0.0059	0.2970	5.9400			
GNC	Star Tracker (STM32H7)	1	3.3	0.00100	0.05000	0.20000	20	100	0.0010	0.0495	0.9900			
GNC	Magnetorquer	3	5	0.00100	0.00100	0.00100	50	100	0.0113	0.0113	0.0225			
Avionics	Cell Heaters	6	5	0.00100	0.05000	0.10000	10	20	0.0045	0.2250	0.9000			

# Milestones Achieved

- Coil driver dev board created
- Tasks divided amongst everyone
- Initial power budget created

# Looking ahead

- Finalize camera board architecture and payload interface
- Solar panel power generation test board
- Reflow PyCubed boards for dev
- Reflow Argus-1 battery board for dev
- Finalize DRV8235 driver development

# Blockers

- No blockers yet

# Interfaces

- *Vision*: Payload compute platform (TPU/GPU)
- *Vision*: Determine if pre-processing is necessary
- *Vision*: Requirements for cameras
- *Mechanical*: Solar cell layout/orientation
- *GNC*: Determine sensor requirements (GPS/Sun Sensor/IMU/etc.)
- *Comms/Ops*: Radio selection and division of labor