DroneTech Delievery Project Earned Value Chart		Date:	7/14/2022	Project Manager: VB																												
		Revision	0																													
Control Account	Description	Labor Hours	Labor Rate ($/hr)	Labor Cost	Material Cost	Total Cost	Notes	Periodic Budget Spread (bi-weekly)																				Direct Report	% Completion	Completion Estimate Basis	Planned Earned Value	Earned Value to Date (June 27) = % Completion x Total Cost
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17					
1.1 Initiating																																
1.1.2 Work with stakeholders	Engage stakeholders to verify project boundaries and finalize the project charter and management plan.	160	55	8800	0	8800	1	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550		VB	75	Fixed Formula (documents delivered)	6600	6600
1.1.3 Legal contract negotiations with Wilmont's	Determine the legal scope of the engagement between DroneTech and Wilmont's.	160	65	10400	0	10400	2	2600	2600	2600	2600														KRO	100	Fixed Formula (legal agreement)	10400	10400
							Weekly Earned Value	3150	3150	3150	3150	550	550	550	550	550	550	550	550										
1.2 Planning																																
1.2.1 Develope scope and planning	Determine project boundaries, deliverables, and exclusions along with cost, scope, and schedule baseline documentation	160	55	8800	0	8800	1	2200	2200	2200	2200														VB	100	Fixed Formula (documents delivered)	8800	8800
							Weekly Earned Value	2200	2200	2200	2200	0	0	0	0	0	0	0	0										
1.3 Execution																																
1.3.1 Hardware systems																																
1.3.1.1 Plan flight and delievery adjustments	Enhance drone flight patterns and prepare adjustments for implementation.	75	65	4875	0	4875	2					2244	2244												GPH	100	Fixed Formula (documents delivered)	4488	4875
1.3.1.2 Flight path engineering	Implement the planned flight path.	120	65	7800	0	7800	2							2600	2600	2600									GPH	0	Fixed Formula (no work completed)	7800	0
1.3.1.3 Custom drone construction	Manufacture four custom drones for Wilmont's pharmacies.	0	0	0	72136	72136	3					18034	18034	18034	18034										WKH	100	Fixed Formula (products delivered)	72136	72136
1.3.1.4 Custom product carrier	Enhance drone delievery carriage design to be shock and temperature resistant.	160	45	7200	2000	9200	2,4									2300	2300	2300	2300						WKH	50	Weighted Milestones (shock absorber designed)	9200	4600
1.3.2 Software systems																																
1.3.2.1 Specialized customer interface	Work with Wilmont's software team to establish software changes necessary to provide an integrated ordering system for customers. Exclusion: DroneTech will not be making modifications to Wilmont's software infrastructure.	150	50	7500	500	8000	2,5					2000	2000	2000	2000										SXS	100	Fixed Formula (products delivered)	8000	8000
1.3.2.2 Custom management reporting interface	Work with Wilmont's IT team to ensure changes needed for proper management approval and information safety for the integrated ordering software.	135	45	6075	500	6575	2,5					1644	1644	1644	1644										RXS	100	Fixed Formula (products delivered)	6576	6675
							Weekly Earned Value	0	0	0	0	23922	23922	21678	21678	1150	1150	0	0	0	0	0	0	0					
1.4 Monitoring																																
1.4.1 Drone maintenance and report	Upkeep of drones and verification of their status during and after manufacturing.	80	35	2800	20000	22800						11400	11400												AXN	100	Fixed Formula (products delivered)	22800	22800
1.4.2 Hardware testing	Supervise quality assurance for the hardware components of the drone system.	160	45	7200	1000	8200	6													2050	2050	2050	2050		WKH	0	Fixed Formula (no work completed)	0	0
1.4.3 software testing	Supervise quality assurance for the software components of the drone system.	160	50	8000	1000	9000	6									2250	2250	2250	2250						SXS	0	Fixed Formula (no work completed)	9000	0
1.4.4 Project controls and change management	Monitor results of quality assurance and reflect changes in scope, schedule, and cost to ensure that delieverables are being met.	160	55	8800	0	8800	1	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550		VB	75	Fixed Formula (documents delivered)	6600	6600
1.4.5 Pharmacy manager operations training	Execute training of drone operators through Wilmont's change management team. Exclusion: DroneTech will not be liable for operator error following training.	80	45	3600	500	4100	2,7					2050	2050												RXS	0	Fixed Formula (no work completed)	4100	0
							Weekly Earned Value	550	550	550	550	11950	11950	550	550	550	550	550	550										
1.5 Closing																																
1.5.1 Closing and documentation	Finalize changes in documentation to learn from the project and facilitate future projects.	40	55	2200	0	2200	1																	2200	VB	0	Fixed Formula (no work completed)	0	0
Total Project Budget						191300		5900	5900	5900	5900	38472	38472	25378	25378	8250	5650	5650	5650	3150	3150	3150	3150	2200					
							Weekly Earned Value	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				**Total Earned Value to Date (Sum of Project Budget up to Week)**	**151486**
							Total Weekly Earned Value	5900	5900	5900	5900	36422	36422	22778	22778	2250	2250	1100	1100	0	0	0	0	0				**Planned Earned Value to Date**	**176500**
Notes																												**Schedule Variance (SV), Total Earned Value to Date - Expected Earned Value to Date**	**-25014**
1	These activities will be completed by the project management team, and the cost accounts only for their labor hours. The salary of each team member was extracted from the human resources documentation.						Indicates Current Project Stage (June 27)																					**Schedule Performance Index (SPI), Total Earned Value to Date / Expected Earned Value to Date**	**0.8582776204**
2	These activities will be completed by the engineering team, and the cost accounts only for their labor hours. The estimated duration of each package is determined by consulting the corresponding engineering experts.																												
3	All of the costs associated with manufacturing the drone is enclosed in this estimated as provided by the manufacturing contractor.																												
4	The equipment cost needed for development of the product carrier was estimated by analogous reference to previous designs of the same nature.																												
5	The cost of maintaining software infrastructure was supplied by the two software engineers on the engineering team.																												
6	The equipment cost needed for testing of the new products was estimated by analogous reference to the previous testing cycles of DroneTech products.																												
7	The cost of training equipment was estimated with the help of the Wilmont change managmenet team.																												

Narrative Discussion: Both the schedule variance (negative value) and the schedule performance index (smaller than one) indicate that the project is running behind schedule. This is graphically represented by the schedule S-curves, where earned value visibly trails planned earned value. By comparing the project progress with the schedule, we note that the main loss of progress corresponds to the following control accounts: 1.3.1.2 (GPH - flight path engineering), 1.4.3 (SXS - software testing), and 1.4.5 (RXS - manage operations training). We note that neither of these work packages belong to the critical path. Furthermore, they each have a true slack greater than or equal to four weeks. This is a positive indicator that despite the apparent deficit from the schedule, the company has the time and the resources to recove the lost progress on these work packages. Subsequently, no changes to scope or schedule are requested at this point. The stakeholders, at DroneTech and Wilmont's, will be informed of the lag in the project progress via the contact methods listed in the stakeholder register. Furthermore, separate meetings will be conducted with the corresponding direct reports for the lagging work packages to ensure the timely completion of the project.