		Name	Duration	Start	Finish	Predecessors	Resource Names	Matt	Tsz Kiu	Yick	Jonathan
1		**Project Planning**	**6 days**	**3/5/20 8:00 AM**	**3/13/20 8:00 AM**		**Matthew;Tsz Kiu;...**				
2		Plan Project Management and Collaboration Tools	1 day	3/5/20 8:00 AM	3/5/20 5:00 PM		Matthew	A	R	R	X
3		Setting up Meeting Logistics	1 day	3/5/20 8:00 AM	3/5/20 5:00 PM		Matthew	A	R	R	X
4		Plan Project Proposal	5 days	3/6/20 8:00 AM	3/12/20 5:00 PM	2;3	Tsz Kiu	R	A	R	X
5		<Project Planning Done>	0 days	3/13/20 8:00 AM	3/13/20 8:00 AM	4					
6		**Project Discovery**	**31.125 d...**	**3/13/20 8:00 AM**	**4/27/20 9:00 AM**						
7		Choosing Pose Estimation Algorithm	5 days	3/13/20 8:00 AM	3/19/20 5:00 PM	5	Yick	R	R	A	X
8		Researching on Gesture Recognition Techniques	5 days	3/13/20 8:00 AM	3/19/20 5:00 PM	5	Yick	R	R	A	X
9		Discovering Music Synthesis Software	5 days	3/13/20 8:00 AM	3/19/20 5:00 PM	5	Tsz Kiu	R	A	R	X
10		Documenting Team Baseline Plan (Assignment 1)	10 days	4/13/20 9:00 AM	4/27/20 9:00 AM	5	Yick	R	R	A	X
11		<Project Discovery Done>	0 days	4/27/20 9:00 AM	4/27/20 9:00 AM	7;8;9;10					
12		**Hardware Setup**	**19.125 d...**	**3/23/20 8:00 AM**	**4/17/20 9:00 AM**						
13		Requesting For Virtual Machine from MSE-IT Support	2 days	3/23/20 8:00 AM	3/24/20 5:00 PM	7	Matthew	A	R	R	X
14		Installing Software Environment for Pose Estimation to run on	6 days	3/25/20 8:00 AM	4/1/20 5:00 PM	13	Matthew	A	R	R	X
15		Setting up Audio and Video Live Streaming	9 days	4/6/20 9:00 AM	4/17/20 9:00 AM	14	Matthew	A	R	R	X
16		<Successfully run pose estimation program>	0 days	4/17/20 9:00 AM	4/17/20 9:00 AM	15					
17		**Pose Estimation System Development**	**12 days**	**4/17/20 9:00 AM**	**5/5/20 9:00 AM**						
18		Develop communication system between Pose Estimation and Gesture Recognition Program	4 days	4/17/20 9:00 AM	4/23/20 9:00 AM	16	Matthew	A	R	R	X
19		Reduce pose estimation GPU consumption down to GPU Specifications	3 days	4/23/20 9:00 AM	4/28/20 9:00 AM	18	Yick	R	A	A	X
20		Run tests and check accuracy of output keypoints	5 days	4/28/20 9:00 AM	5/5/20 9:00 AM	19	Yick	R	A	A	C
21		<Pose Estimation Algorithm Done>	0 days	5/5/20 9:00 AM	5/5/20 9:00 AM	20					
22		**Gesture Recognition System Development**	**96 days**	**4/20/20 8:00 AM**	**8/31/20 5:00 PM**						
23		Defining a list of workable gestures to map using keypoints	11 days	4/20/20 8:00 AM	5/4/20 5:00 PM	8	Tsz Kiu	R	A	R	X
24		Finding and creating training datasets of human body gestures	20 days	5/5/20 8:00 AM	6/1/20 5:00 PM	23	Yick	R	R	A	X
25		Creating a software system to recognize human gestures with Artificial Intelligence	45 days	6/2/20 8:00 AM	8/3/20 5:00 PM	24	Yick	R	R	A	X
26		Running tests to ensure both pose and gesture programs meet GPU specifciations	14 days	8/4/20 8:00 AM	8/21/20 5:00 PM	25	Yick	R	R	A	X
27		Running tests datasets on Gesture Program to observe accuracy	6 days	8/24/20 8:00 AM	8/31/20 5:00 PM	26	Yick	R	R	A	C
28		<Gesture Recognition System Done>	0 days	8/31/20 5:00 PM	8/31/20 5:00 PM	27					
29		**Music Synthesis System Development**	**100.875 ...**	**4/24/20 9:00 AM**	**9/11/20 5:00 PM**						
30		Choosing a real-time audio synthesising software	5 days	4/24/20 9:00 AM	5/1/20 9:00 AM	9	Tsz Kiu	R	A	R	X
31		Developing a communication system between Gesture and Music program	14 days	8/4/20 8:00 AM	8/21/20 5:00 PM	25;30	Matthew	A	R	R	X
32		Researching audio synthesising techniques of interest	7 days	5/1/20 9:00 AM	5/12/20 9:00 AM	30	Tsz Kiu	R	A	R	X
33		Defining Musical Parameters to Control	14 days	5/12/20 9:00 AM	6/1/20 9:00 AM	32	Tsz Kiu	R	A	R	X
34		Creating a Gesture to Musical Parameter Control System	14.875 d...	8/4/20 9:00 AM	8/24/20 5:00 PM	33	Tsz Kiu	R	A	R	X
35		Running tests to ensure the generated audio reflects the parameters controlled by gestures	14 days	8/25/20 8:00 AM	9/11/20 5:00 PM	34	Tsz Kiu	R	A	R	C
36		<Music Synthesis System Done>	0 days	4/24/20 9:00 AM	4/24/20 9:00 AM						
37		**Integrating into Single Prototype System**	**21 days**	**9/1/20 8:00 AM**	**9/29/20 5:00 PM**						
38		Testing Live streaming output of each subsystem	7 days	9/1/20 8:00 AM	9/9/20 5:00 PM	21;28;36	Matthew	A	R	R	X
39		Complete Tests based on standard from a defined rubric	7 days	9/10/20 8:00 AM	9/18/20 5:00 PM	38	Yick	R	R	A	X
40		Documenting test results	7 days	9/21/20 8:00 AM	9/29/20 5:00 PM	39	Tsz Kiu	R	A	R	C
41		<Prototype System Done>	0 days	9/29/20 5:00 PM	9/29/20 5:00 PM	40					
42		**Project Presentation**	**48 days**	**9/30/20 8:00 AM**	**12/4/20 5:00 PM**						
43		Endeavour Exhitbition	36 days	9/30/20 8:00 AM	11/18/20 5:00 PM	41	Tsz Kiu	R	A	R	X
44		Oral Presentation	36 days	9/30/20 8:00 AM	11/18/20 5:00 PM	41	Tsz Kiu	R	A	R	X
45		Final Report	48 days	9/30/20 8:00 AM	12/4/20 5:00 PM	41	Yick	R	R	A	X