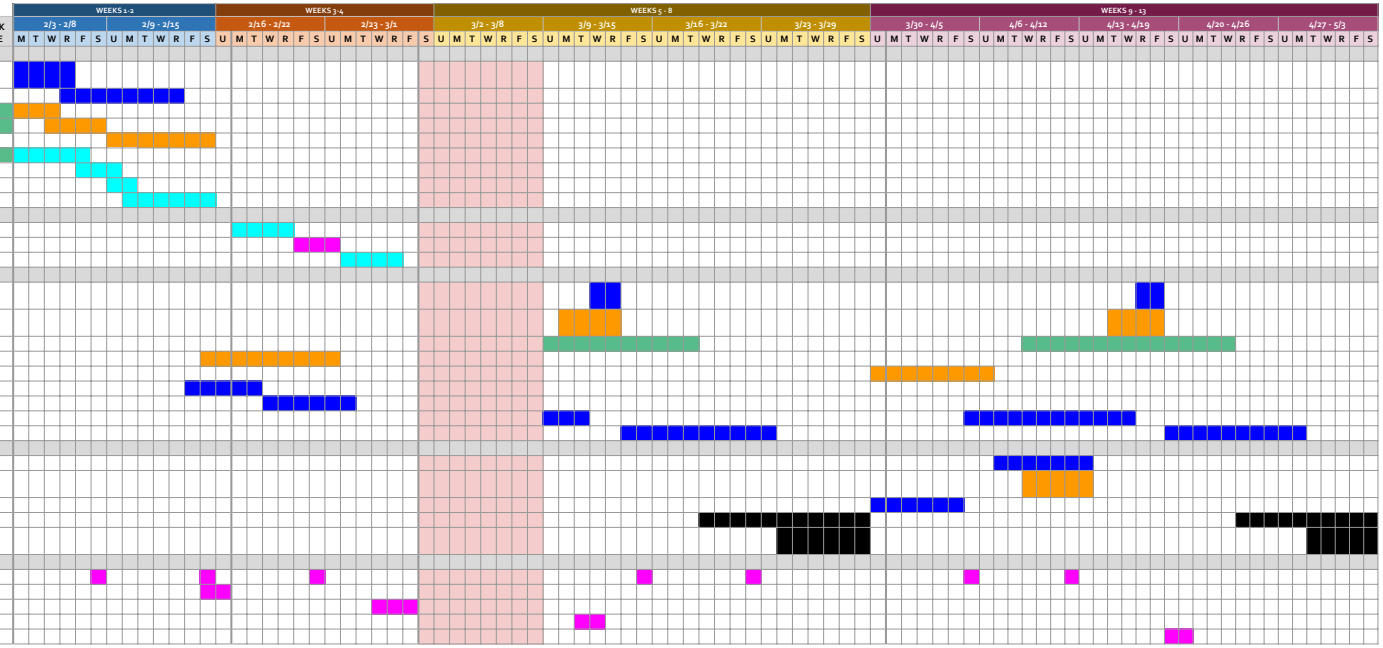
PROJECT TITLE	Check, Mate, Vision	COMPANY NAME	
PROJECT MANAGER		DATE	

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
1	**Research + Design**					
1.1	Physical Chessboard Gaze Tracking Research	Liam	2/1/25	2/6/25	6	
1.2	Gaze Tracking Proof of Concept	Liam	2/6/25	2/13/25	8	
1.3	Evaluate existing gantry system in lab	Trey	2/3/25	2/5/25	3	100%
1.4	Research actuators + motors	Trey	2/5/25	2/8/25	4	100%
1.5	Research pickup mechanism	Trey	2/9/25	2/15/25	7	
1.6	Research microcontroller choice	Tarek	2/3/25	2/7/25	5	100%
1.7	Design through-board LED circuit	Tarek	2/7/25	2/9/25	3	33%
1.8	Design Jetson-microcon. comm.	Tarek	2/9/25	2/10/25	2	
1.9	Research PC libraries in case of pivot	Tarek	2/10/25	2/15/25	6	
2	**Prototyping**					
2.1	Design custom chess pieces	Tarek, Trey	2/17/25	2/20/25	4	
2.2	Design custom chessboard	All	2/21/25	2/23/25	3	
2.3	Fabricate chess pieces and board	Tarek, Trey	2/24/25	2/27/25	4	
3	**Implementation**					
3.1	Jetson to STM32 Communication	Liam + Tarek	2/15/25	2/16/25	2	
3.2	STM32 to motors	Tarek + Trey	4/1/25	4/4/25	4	
3.3	State control	Tarek	3/24/25	4/11/25	19	
3.4	Gantry system motion	Trey	2/17/25	2/27/25	11	
3.5	Gantry system pickup mechanism	Trey	3/10/25	3/20/25	11	
3.6	Nano Setup	Liam	2/15/25	2/21/25	7	
3.7	Convert gaze detection to Nano	Liam	2/22/25	3/1/25	8	
3.7	Fine tune gaze	Liam	3/17/25	4/2/25	17	
3.8	Incorporate state into gaze detection	Liam	4/7/25	4/18/25	12	
4	**Testing**					
4.1	Eye-tracking accuracy test group	Liam	3/20/25	3/28/25	9	
4.2	Gantry system manual input tests	Trey + Tarek	3/24/25	3/28/25	5	
4.3	Unit Test Gaze Detection	Liam	3/10/25	3/17/25	8	
4.4	Integration Testing	All	4/14/25	4/26/25	13	
4.5	End-to-end gameplay with integrated design	All	4/20/25	4/26/25	7	
5	**Assignments**					
5.1	Write weekly status reports	All	Weekly	Weekly	N/A	N/A
5.2	Make design presentation	All	2/15/25	2/16/25	2	
5.3	Write design report	All	2/26/25	2/28/25	3	
5.4	Write ethics assignment	All	3/11/25	3/12/25	2	
5.5	Make final presentation	All	4/20/25	4/26/25	7