Milestones, Timeline, and Effort Matrix

The Medicine Delivery Robot

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Milestones List:

- 1. 10/21/19 Acquire Parts: Have all parts purchased and delivered to us. Also begin to work on drive train design.
- 2. 12/1/19 CAD Design: Finalized computer-aided design for drive train section and begin work on programming.
- **3. 12/21/19 Web Application:** Web application UI is complete. And we are able to access the website.
- **4. 2/1/20 Robot Movement:** Working drive train, begin work on storage compartment. Will be able to drive around, position the robot in a room, and detect obstacles.
- 5. 3/1/20 Robot Storage: Finished storage compartment and working camera.
- **6.** 3/23/20 Finished Medicine Delivery Robot: From here on out, time will be focused on debugging small issues and preparing for tech expo.
- 7. 4/9/20 Tech Expo Presentation: Present our medicine delivery robot at the tech expo. Show that our robot is able to successfully deliver medicine to a patient.

Task List:

- 1. Research sensors to incorporate on robot (Kevin)
- 2. Research robot design (Anthony)
- 3. Investigate possible design concepts (Anthony)
- 4. Finalize design concept (Anthony)
- 5. [Milestone 1] Obtain robot parts to begin working on drive (Kevin)
- 6. [Milestone 2] Finalized CAD design for drive train (Anthony)
- 7. Research development design of robot (Brock)
- 8. [Milestone 3] Complete web application (Brock)
- 9. Develop code for robot's drive train (Brock)
- 10. Design storage compartment (Kevin)
- 11. [Milestone 4] Complete Robot Movement (Anthony)
- 12. [Milestone 5] Complete work on storage compartment (Kevin)
- 13. Develop code to open/close storage compartment (Brock)
- 14. Implement sensors and camera (Kevin)
- 15. Validate development is complete (Anthony)
- 16. [Milestone 6] Validate robot functionality is complete (Brock)
- 17. Refine and test robot (Brock)
- 18. [Milestone 7] Tech Expo Presentation (All)

Timeline and Effort Matrix:

Task ID	Start	Finish	Primary	Kevin's Effort	Anthony's Effort	Brock's Effort	Progress
1	09/15/19	10/12/19	Kevin	90%	10%	0%	100%
2	09/15/19	10/02/19	Anthony	50%	50%	0%	100%
3	09/28/19	10/08/19	Anthony	60%	40%	0%	100%
4	10/15/19	11/01/19	Anthony	70%	30%	0%	75%
5	10/16/19	10/21/19	Kevin	40%	40%	20%	0%
6	11/01/19	12/01/19	Anthony	75%	25%	0%	0%
7	11/01/19	12/01/19	Brock	0%	0%	100%	0%
8	12/01/19	12/30/19	Brock	0%	0%	100%	0%
9	01/09/20	02/01/20	Brock	0%	0%	100%	0%
10	01/15/20	02/12/20	Kevin	90%	10%	0%	0%
11	01/16/20	02/01/20	Anthony	0%	100%	0%	0%
12	02/13/20	03/01/20	Kevin	80%	20%	0%	0%
13	03/01/20	03/23/20	Brock	0%	0%	100%	0%
14	03/04/20	03/15/20	Kevin	50%	40%	10%	0%
15	03/20/20	03/24/20	Anthony	20%	80%	0%	0%
16	03/20/20	04/01/20	Brock	0%	0%	100%	0%
17	04/01/20	04/08/20	Brock	33%	33%	34%	0%
18	04/09/20	04/09/20	All	33%	33%	33%	0%