



GoBabyGo

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Client: Dr. Sarah Oman

Project Description

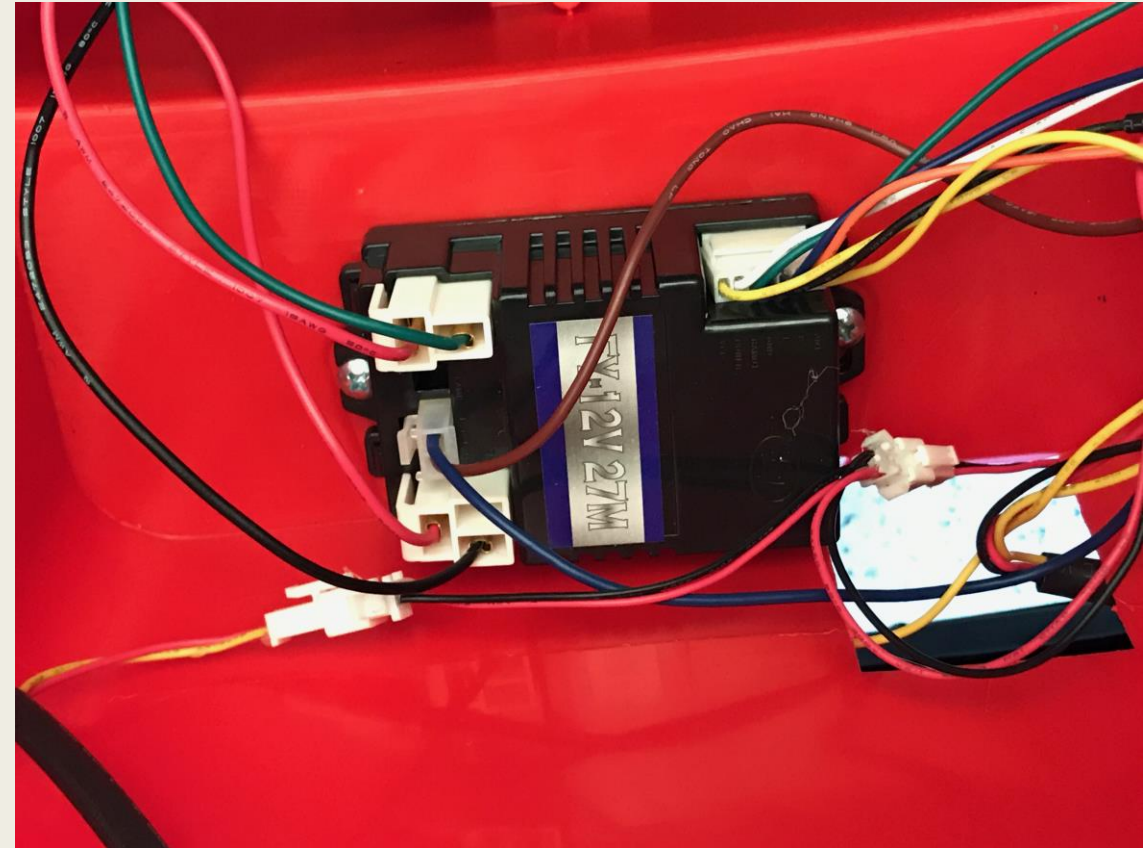
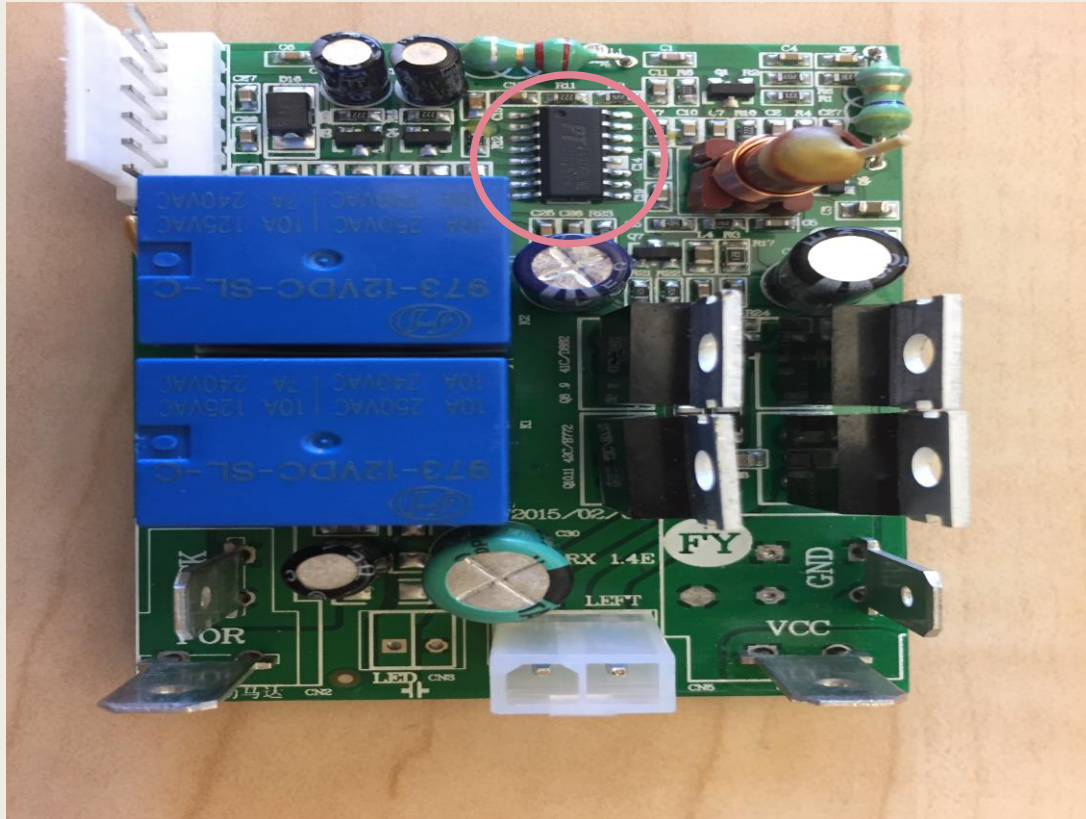
- Go Baby Go is non-refunded organization that provides modified ride-on cars for children ages 3 to 6 who experience limited mobility.
- Many volunteers started the program in different states in United state that expanded throughout the world.
- Goal: Help children with mobility challenges and enable them to interact with others
- Thinking and building a new and creative version of ride-on cars.



Updates

- The safety components were placed but not totally completed.
- The car had a black-box and a circuit drive that were wired to many components that will allow the car to work.
- The team is going to test the old components that came with car instead of the servo motor.

Updates



Moving Forward

- Continue developing code to control:
 - *Steering*
 - *Acceleration*
- Rewire electrical components:
 - *Use existing batteries*
 - *Joystick*
 - *Motors*
- Mount components onto vehicle

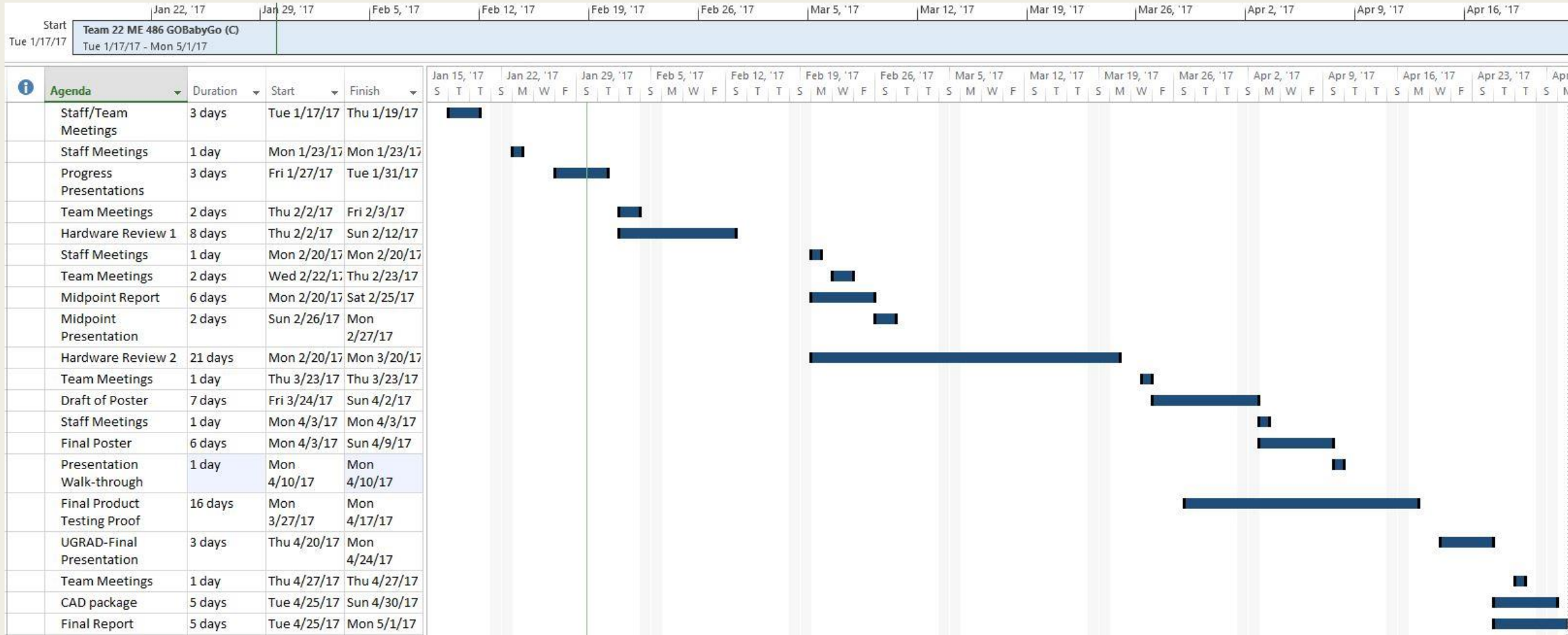
Moving Forward

- Testing:
 - *Steering*
 - *Acceleration/Deceleration*
 - *Response times*
 - *Various surfaces*
 - *Adjust the code according to results*

Moving Forward

- Who's responsible for what?
 - *Asrar – Variable Speed Control (Acceleration)*
 - *Alwaleed – Joystick (Steering)*
 - *Fawaz – Motor*
 - *Eric - Arduino coding*
 - *Sultan – Safety components (Safety Harness, Chair, and PVC)*

Schedule



Budget

Team 22 Bill of Materials					
Item	Part Name	Qty	Description	Cost	Link to Cost estimate
1	Hub AM-2279	1	Motor	\$15.00	Andymark.com
2	Window Motor AM-2235	1	Power Steering	\$39.00	Andymark.com
3	Big Dome Push Button -Red	1	Button	\$16.95	Amazon.com
4	6- Volt Rechargeable Battery	1	Battery	\$29.40	Amazon.com
5	Universal Baby 5-Point Harness Belt	1	Seatbelt	\$9.98	Amazon.com
6	Power Wheel Switch	1	Switch	\$9.99	Powerwheels.com
7	Best Choice Products 12V Kids Ride on Truck Car W/ Remote Control	1	Ride-On-Car	\$189.67	Amazon.com
8	RioRand Upgraded 6V-90V 15A Motor Pump Speed Controller	1	Speed Controller	\$10.99	Amazon.com
9	Kuman L298 Motor Drive Controller Board	1	Motor Controller Bo	\$8.99	Amazon.com
10	Hobbypark HDR315M 15kg Digital High Torque Robot Servo	1	Servo Motor	\$29.99	Amazon.com
11	Arduino Uno 3 Ultimate Starter Kit	1	Arduino	\$48.99	Amazon.com
12	Arcade Joystick with Top Fire Button For Crane and Claw Style Games	1	Joystick	\$24.95	Amazon.com
13	KVH3323 Kraken Ts-555HV Digital Torque Servo	1	Servo Motor	\$123.13	Amazon.com
14	Child Booster Seat Car Chair for Kids	1	Car Seat with 5-Pol	\$10.96	Dhgate.com
15	1" Long Foam Pipe	2	Foam Pipe	\$3.98	The Home Depot
16	1"X2' PVC Pipe	5	PVC Pipe	\$9.95	The Home Depot
17	1" PVC EL 90D 5PCK	1	Elbow	\$2.55	The Home Depot
18	1" PVC EL 90D	2	Joint	\$1.96	The Home Depot
19	1" PVC TEE	2	Tee	\$2.44	The Home Depot
20	Sheet Screw	2	Screw	\$2.36	The Home Depot
21	Sharkie 5/16"	1	Screw	\$2.68	The Home Depot
Total Cost Estimate:				\$593.91	
Total Remaining:				\$906.09	

Thank You!