



NORTHERN
ARIZONA
UNIVERSITY



GoBabyGo A (Team 14)

ME 476C

Ernes Distajo

Abdullah Alajmi

Abdulrahman Almutairi

Mohammad Aljuaidi

Samuel Williams

Project Sponsor: Sarah Oman

Project Description

- Created in 2012 at the University of Delaware.
- Developed a set of DIY cars.
- Enabling young children to move and interact with their peers.

Project Goal:

- ★ Design and build a new version of the GBG retrofits for children that limited mobility of their arms and/or legs.

Design Description

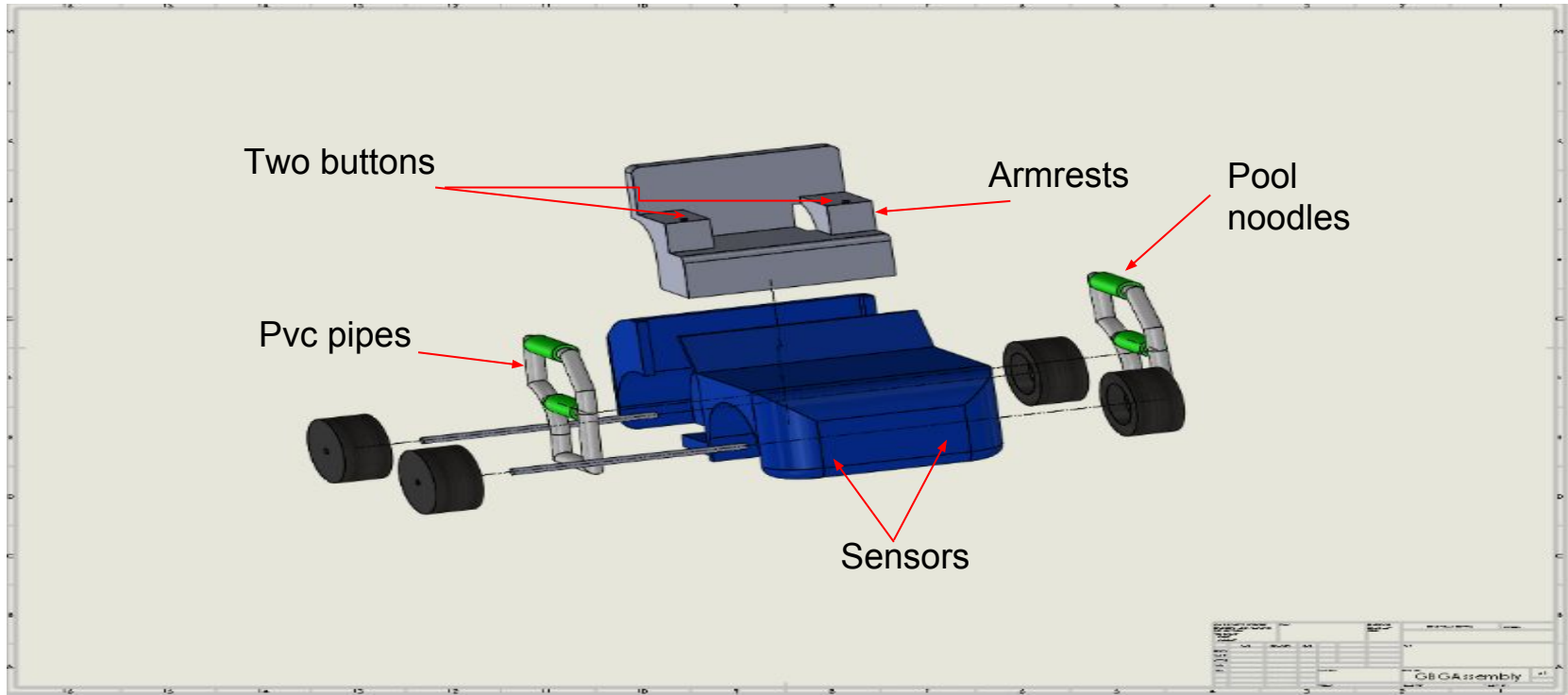


Figure 1: Exploded View

Design Description

- Performance
 - Steering
 - Support securements
- Suggestions
 - Umbrella/cover
 - Accelerator governor
 - 180 doors
 - Wireless movable buttons
 - Rotating armrests
 - Belt/seat dependent on kid

Design Requirements

Table1: Customer Requirements and Weightings

Customer Requirements	Weighting	
Cost	4	11.59%
Safety	5	14.49%
Quality	4.5	13.04%
Transportable	3.5	10.14%
Unique Solution	4	11.59%
Longlife Time	3	8.70%
Material accessibility	4	11.59%
Easy to assemble	3.5	10.14%
Control System	3	8.70%
Total:	34.5	100.00%

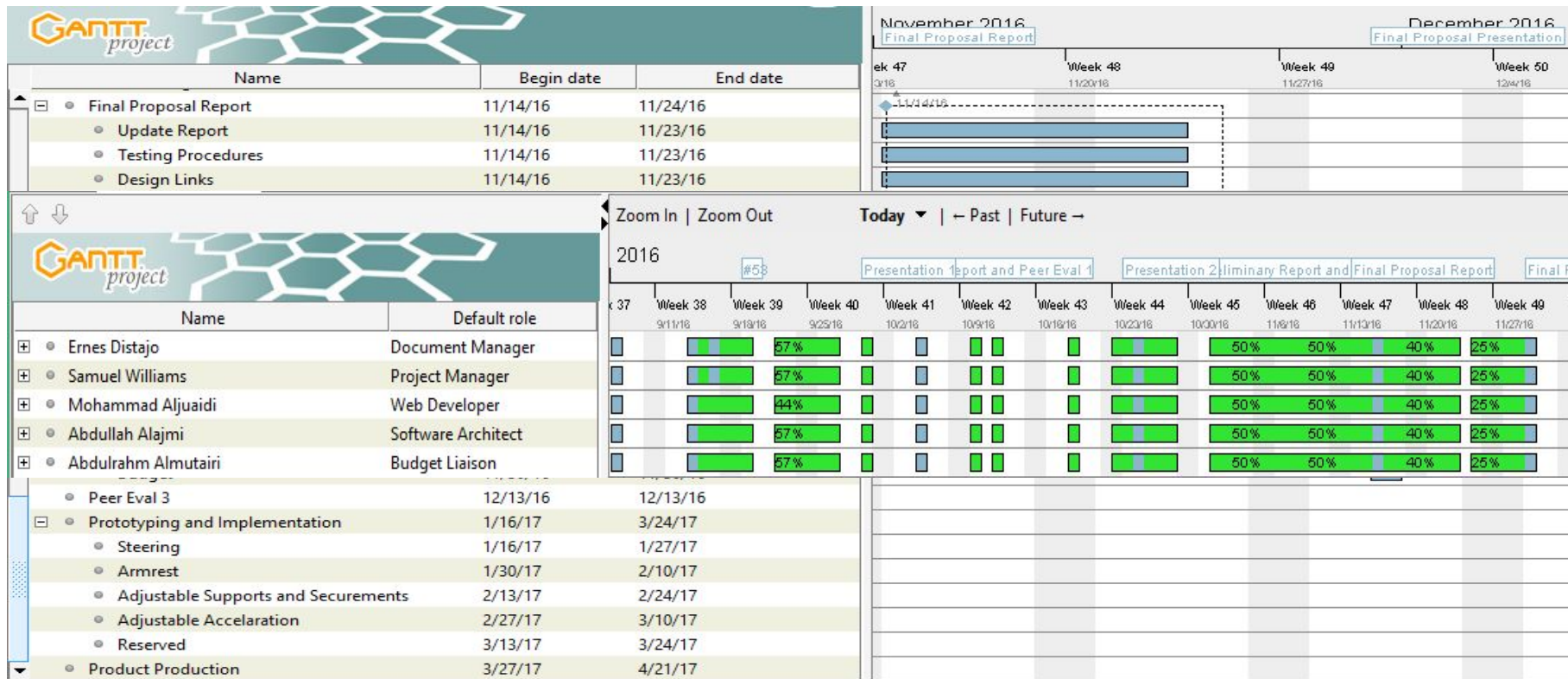
- All Components (\$320) →
- Securements: Frame, Seat, Seat Belt, Railing →
- Tested and Approved →
- All Components (<100 lbs) →
- New Steering, Armrests, Sensors →
- All Components (>3 years) →
- Local/Department Stores or 3 weeks to Ship →
- Simple Parts and Good Instructions (2.5 hours) →
- Two-Button Steering →

Budget

Table 2: Bill of Materials

Material	Cost
Power Wheels Car (2 6v motors)	\$170
Buttons x2	\$22 (each)
PVC Piping (2 in x 5 ft) x2	\$18 (each)
Pool Noodles (57 in x 2.3 in) x2	\$11 (each)
Sensors	\$18
5 Point Seat belt	\$16
Optional Cover	\$14
Total Cost	\$320

Schedule



Questions?