

Project Deliverable E: Task List
GNG 1103 – Engineering Design

Due Date: October 14th

Group ~ A7

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Throughout this project different tasks must be accomplished. The table below presents these tasks, their duration, and the design officials.

Task List

Prototype 1

Task	Due Date	Person
Draw out basic design	October 19	Bahar
Create material/resource list	October 22	Laiba
Locate materials	October 25	Michelle
Create basic prototype	October 27	Martin
Analyze test prototype	October 30	All

Prototype 2

Orthographic Drawings	November 5	Laiba
Create Solidworks prototype and 3D print	November 8	Aria
Code Arduino	November 9	Michelle
Build prototype	November 11	All
Test prototype 2	November 12	All

Prototype 3

List problems with Prototype 2	November 14	Aria
Brainstorm solutions / Implement solutions and build Prototype 3	November 16	All
Test Prototype 3	November 17	All

Design Day

Create powerpoint presentation	November 20	Bahar
Practice presentation	November 22	All
Design Day Presentation	December 4	All

Project Risks

1. The biggest risk that might occur during the prototyping process would be the programming of the arm and the lid during the Arduino code stage. There will be lots of expected troubleshooting to make the functions work properly.
2. Another risk would be the variables that come into play with 3D printing of the prototype. Variations such as strength of material, accuracy of measurements, and etc. will cost valuable time which could shorten the time for next tasks.

Prototype I Cost and Material List:

- Cardboard: free
- Hot glue: free
- Scissors: free
- Decorations: free

Prototype II Cost and Material List:

- 3D printable material: free
- Arduino: \$20
- Wires: \$5
- Sensors: \$13
- Servos: \$19

Prototype III Cost and Material List:

- 3D printable material: free