ASSISTIVE HOLDER FOR PEOPLE WITH DISABILITIES

Team D4

Mahdi Alajmi

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*Project Description

☐ Main Idea:

- Design a device helps people with disabilities to pick up and hold objects.
- Design a device has multiple ways to use.
- People with disabilities could help themselves.

□ Client:

Terri Engel

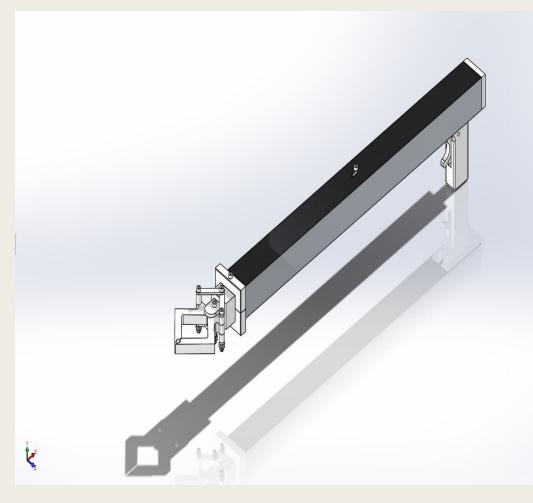
□Sponsor:

Hozhoni Art



*Project Description

☐ Current Design





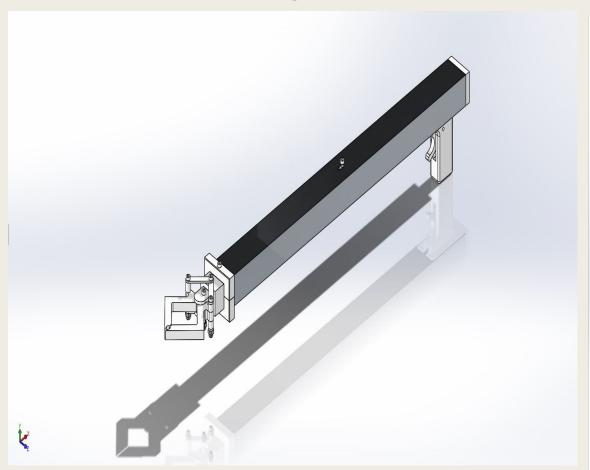
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Mar/13th/2018

- ☐ Updates from last presentations:
- Updating CAD design.
- manufacturing parts.
- Updating bill of materials.
- updating our website.
- Research about best materials to use.

☐ changes to the design

New Design



Previous Design



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- ☐ Cause of changes:
- Controlling length
- Comfortable handle
- Grabber teeth
- Safety system
- The weight
- ☐ What left to manufacture:
- Accessories and features

☐ Analytical Analyses:

- Comparing the materials that we can use.
- Materials weight
- Force
- Friction between inner and outer shaft upon the materials used.

*Moving Forward

- ☐ There is no manufacturing is still required.
- ☐Plans for testing the Design
- Pick up small object
- Test safety
- Test the length and weight
- Test the deployment speed (gravity)

*Moving Forward

- □Contingencies:
- We have at least two weeks time if we need to redesigns.
- \$200 budget if needed for redesigns.
- ☐Gantt Chart:
- currently on schedule

Gantt Chart

*Moving Forward

Gaire Grane											
		Marc		April			May				
TASK	NAME	12-Mar	19-Mar	26-Mar	2-Apr	9-Apr	16-Apr	23-Apr	30-Apr	7-May	14-May
Presentation:	Team										
Making Slides	Mohammad										
edtting slides	Madhi										
	Saud										
Mid Point Report	Team										
edit Last semester report	Hamad										
Follow comments for last semester report	Mohammad										
Hardware Review 2& summary											
Register for UGRAD	Mohammad										
Testing	Team										
Final Testting prof	Team										
Ugrad practice	Team										
UGRADS	Team										
Final Report											
work on Report	Mohammad										
	Saud										
edit and review report	Mahdi										
	Hamad										
Final CAD	Team										
Legend											
Completed											
In Progress											
Needs to be started											

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*Moving Forward

- ☐ Budget:
- Total Dollars: \$2000
- anticipated expenses: \$400
- actual expenses: \$600
- resulting balance: \$1400
- ☐ Changes from last presentation:
- Estimate budget was \$300-\$400



*Hardware Review 2

- ☐ Our Device is 99% complete
- ☐ Still needs some accessories





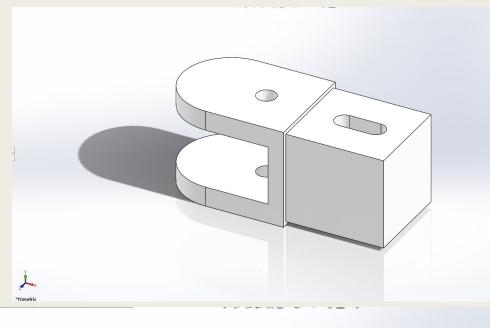
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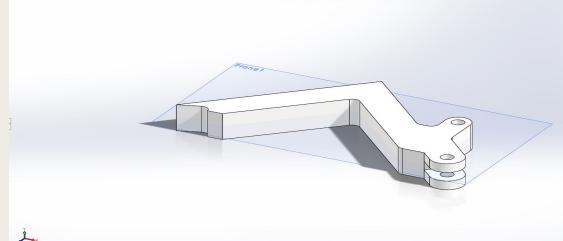
Mar/13th/2018

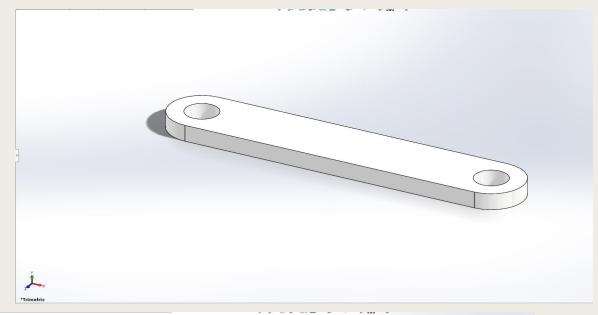
12-Mahdi&Mohammad

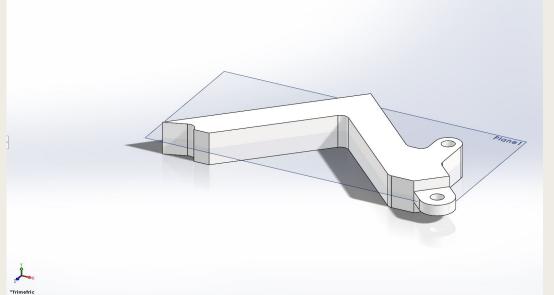
*Hardware Review 2

■ How The system works:









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*Demonstration









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*Thank you

Q/A