



NORTHERN  
ARIZONA  
UNIVERSITY

# Assistive Device for the Art Studio

## Team 27

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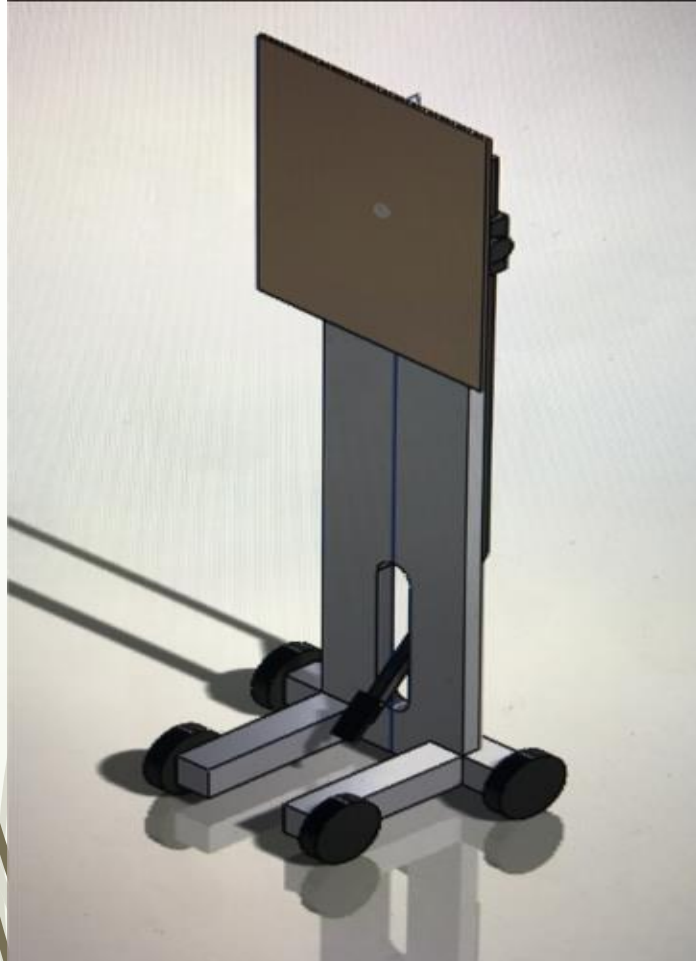
Rakan Alhajraf

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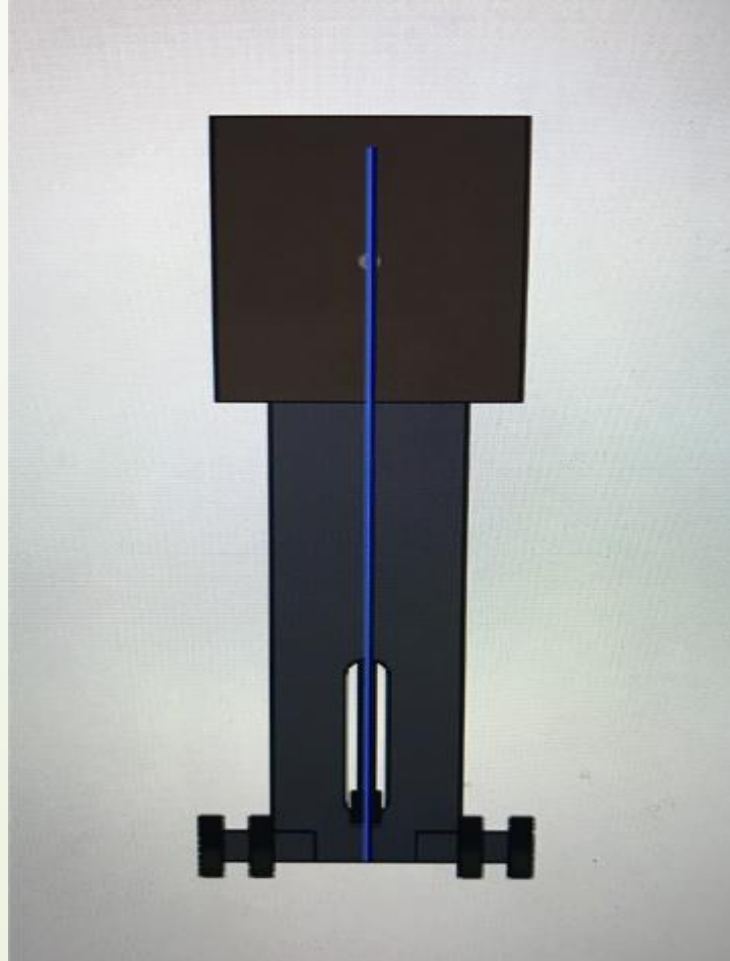
# \* Project Description:

- **Main Idea :**
  - A new design that makes more options for artist.
  - Help them to improve their skills on drawing.
  - An easel that have a rotation stand with a break to hold it from rotating.
  - This easel would give a better chance for disabled people.
  - This easel would hold the paper so easy.

# \* Designs Description:



Front view



Real view



Side view

# \* Designs Description:

- 1) Easel.
- 2) Stand.
- 3) 1 Bearing.
- 4) Break with stand.
- 5) 4 Tires.
- 6) + shape.










# \* Design Requirements:

Customer Requirement
1. Safety
2.Storage
3. Light weight
4. Ease to control
5. Easy to use
6. Comfortable
7. Cleanable
8. size
9.Efficient
10. cost



# \* Budget :

	<p>6 in. Square Lazy-Susan Turntable with 400 lb. Load Rating Price ( 4.48 \$ each - Req. 1 ) Mod:49548</p>		<p>2 in. x 2 in. x 8 ft. Select Kiln-Dried Square Edge Whitewood Board Price ( 10.16 \$ each - Req. 1 ) Mod:235097</p>
	<p>Hardwood Rounds (Common: 3/4 in. x 2 ft.; Actual: 0.75 in. x 0.75 in. x 24 in.) Price ( 1.00 \$ each - Req. 2 ) SKU:1000041069</p>		<p>2 in. Soft Rubber Swivel Plate Caster with 90 lb. Load Rating and Side Brake Price ( 3.98 \$ each - Req. 4 ) Mod:49509</p>
	<p>Birch Board (Common: 1 in. x 8 in. x R/L; Actual: 0.75 in. x 7.25 in. x R/L) Price ( 4.93 \$ each - Req. 1 ) Mod:782504</p>		<p>#6 x 1-1/4 in. Philips Bugle-Head Fine Thread Drywall Screws (1 lb.-Pack) Price ( 6.47 \$ each pack - Req. 1 ) Mod:114DWS1</p>
	<p>Medium Density Fiberboard (Common: 1/4 in. x 2 ft. x 4 ft.; Actual: 0.216 in. x 23.75 in. x 47.75 in.) Price ( 13.47 \$ each - Req. 1 ) Mod:225477</p>		<p>Brake System that is going to help the system to stop rotating.</p>

# \* Budget :

- Our Budget :
  - 1500 \$
- Cost for our Project
  - 61.41 \$ + Tax
- Remaining Budget:
  - $1500 - 61.41 = 1438.59$
- We still did not figure out our final budget because we still have the brake part that we have to make and we still did not figure out how much will be the prototype 3D printing.

# \* Schedule :

