

# New Snow Removal Methods

Our group is developing an improved method to remove snow from driveways for people of all ages. This project is a being completed by Ethan Goldman, Tyler Mackowski, Will Baise, Emma Gonzalez, and Varun Suresh Nair for a class called "Inventive Design."

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Not shared

\* Indicates required question

What age range do you fall under? \*

- ☐ Below 20
- ☐ 20-40
- ☐ 40-60
- ☐ 60-80
- ☐ Above 80

Where are you from? \*

- ☐ Massachusetts
- ☐ Vermont
- ☐ New Hampshire
- ☐ Maine
- ☐ Connecticut
- ☐ New Jersey
- ☐ Other:



Do you remove your snow? \*

- ☐ Yes, I remove it myself
- ☐ No, I have a family member or friend remove it
- ☐ I pay a company to remove it
- ☐ Other:

Do you have a preexisting condition that makes snow-removal difficult for you (i.e. bad back, arthritis) \*

- ☐ Yes
- ☐ No



Rank the importance of the following in a snow removal device: \*

	1	2	3	4	5	6
Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Amount of labor required	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Size of device	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ease of storage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time it takes to remove snow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to handle various snow conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Are there any other considerations that you feel are important when evaluating a snow removal tool?

Your answer

How much space do you have to store your snow-removal device? \*

- ☐ A lot of room (can fit a car)
- ☐ Enough room to fit a few bikes
- ☐ Enough room to fit a person
- ☐ The size of a small closet



What is your current method of removing snow from your driveway? \*

- ☐ Shovel
- ☐ Plow
- ☐ Snowblower
- ☐ Combination of the above
- ☐ I have someone else clear it for me
- ☐ Other:

With your current snow removal method, how difficult on a scale of 1 to 10 would you rate the effort required to clear your driveway with 3 inches of snow \*

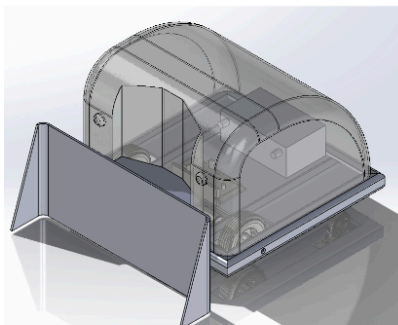
1 2 3 4 5 6 7 8 9 10

No effort ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Extremely difficult

Are there any improvements or features you would like to see made to your snow removal device?

Your answer

Roomba Plow, Modula Handheld Snow Blower, Shovel on Fulcrum and Wheels



Rank the following snow removal device designs from best to worst: \*

	Best	Middle	Worst
Roomba Plow - robot about two feet in diameter that clears your driveway for you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modular Handheld Snow Blower - a snowblower on the end of a shovel handle. The blower part can be switched out to account for different snow conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shovel on Fulcrum and Wheel System - the shovel can be pushed on wheels so snow doesn't have to be carried. Force to lift snow is reduced through use of lever	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please explain your ranking from the previous question

Your answer

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