

In this challenge, your team will design a gadget or tool that helps a hemiplegic person in a simple, daily task.

You will be assessed by rubric.

+	Exceeds Expectation
<b>✓</b>	Meets Expectation
$\triangle$	Approaches Expectation
0	Missing

There are several different deliverables that are due at different times.

Even though you are working in teams, each person is responsible for keeping track of and meeting deadlines as well as keeping an individual Design Journal up-to-date.



#### **Empathize**

Interview a hemiplegic person or a person who has assisted a hemiplegic person with daily activities.

Take notes on the interview.

Who is my user?

What matters to this person?

What specific needs does this person have?

What specific concerns?

Observations

Tell the User's story by understanding his/her point of view.

#### **Define**

Create a point of view that is based on user needs and insights.

Process and synthesize the findings from your empathy work.

Form a user point of view that you will address with your design.

#### Ideate

Brainstorm and come up with as many creative solutions as possible.

Wild ideas encouraged!

Generate a huge number of ideas.

Go beyond the obvious.

#### **Prototype**

Transform your ideas into a physical form.

Use cheap, plentiful materials such as index cards, rubber bands, popsicle sticks.

Experience and interact with the prototypes.

Ask others to try your prototypes.

#### Test

Prototypes with promise are re-made with more realistic materials.

Use observations and feedback to refine prototypes.

Learn more about the user.

Refine your original point of view.



#### **Deliverables**

### Week 1:

Understanding the Project and the Challenge Interview Notes Insights on Interview Point of View and Problem Statement

#### Week 2

Research notes

#### Week 3

Individual Ideation and Group Ideation notes and sketches

#### Week 4

Prototype sketches
Prototype (a physical representation of your idea)

#### Week 5

Pictures of prototype testing and refining

#### Week 6

Pictures of building and refining final gadget Gadget showcase



### The Innovators Mind-Set

Act: We are problem solvers, doers, creators

Learn from Mistakes: We fail fast and fearlessly, learning from each try

Work Together: We collaborate, creating better solutions

Contribute to the Greater Good: We improve our community and the world

Be Resilient: We don't give up

Grow: We are life-long learners



### Understand before you begin

Write your current understanding of the following:

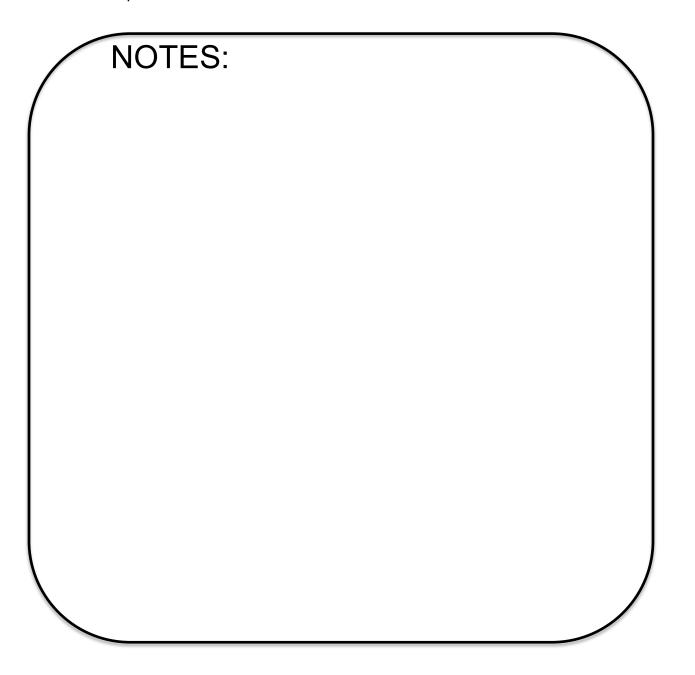
- 1. Innovators
- 2. Empathize
- 3. The Hemi-Gadget Design Challenge
- 4. Deliverables for the Challenge
- 5. How you will be assessed
- 6. Working in a group collaboration



Your Mission: Design something USEFUL & MEANINGFUL for a hemiplegic person. Start by **GAINING EMPATHY**.

### **Interview**

Ask the person to introduce him/herself to you. Ask at least 3 questions.
5 minutes per TeamMember





### **INSIGHTS:**

What stood out to you? What are you curious about?



### **POINT OF VIEW**

This is where you articulate (explain) your current point of view (understanding) of the problem.

Inventory possible **NEEDS** 

Things they are trying to do (needs):

Ways they want to feel (insight/meaning):



### Here we DEFINE a PROBLEM STATEMENT

NEEDS A WAY TO
user's need
in a way that makes him/her FEEL
insight/meaning



### **RESEARCH**:

Learn more about hemiplegia by conducting some research and taking notes.
Watch at least 3 videos from the list.
Read at least 2 websites from the list.
Take notes here.