

Art: Design device to fit on small desk

Based schedule on detailed design review, work backwards, fill in more detail as you go

#### Problem Definition Review:

- Don't have the arm tackle all aspects

- Narrow it down to one or two utensils, pencil and marker

- More interfaces for input

- Button option (interface) press button and it just did it

  - Want it to be simple, not too many options

- Want it to be instant

- Draw a triangle, circle, square heart

- Choose between zig-zag, wavy, dotted line

- Smiley face, flower, moon

Agrees with customer requirements

Maximum paper >14x20

Other than maximum paper size all other engineering requirements are good

Plan is ok

#### Feedback:

- Did awesome, very excited

- Videos of kids, next week off (couple weeks out)

- Pictures of artwork kids have completed

Little wooden tops on the desk, if the top is off there will be a hole

Use the larger desk for students who need the device

Device goes on larger desk

There's a lot of plugs, students and tables can be moved around the room

Might need an extension cord (6-10 feet away)

Art: Functional decomposition is the hardest part of the first semester

Make you think about functions and root causes. Take as much time as you need. Keeping doing it until it makes sense, no one good answer.

Get to understand your problem and prototype better.

Looking for robust designs, it's better to have one thing well designed than many things partly designed.