

Ac h y u t

ENGINEERING DESIGN PROCESS

Ask

Identify the need.

- In Oregon, we currently have forest fire. I want to build a device which detects fire early so that the damage is reduced.

Research

What are things that could make this need better?

- This early detection will reduce deforestation. This will avoid property loss and unhealthy air quality.

Imagine

What is something you could build to help this need?

- To build a device with sensor, camera and drone. The sensor will detect fire and drone with camera will take pictures.

Plan

What would you need to build this?

- Heat detecting sensor
- camera
- drone
- satellite to make emergency calls.

Draw

Draw your prototype.



Strengths & Weaknesses

What are some strengths and weaknesses of your prototype?

- Strengths: solar charger, can withstand high temperature.
- Weakness: limited coverage area, network issues.