

## **Astronaut Tools**

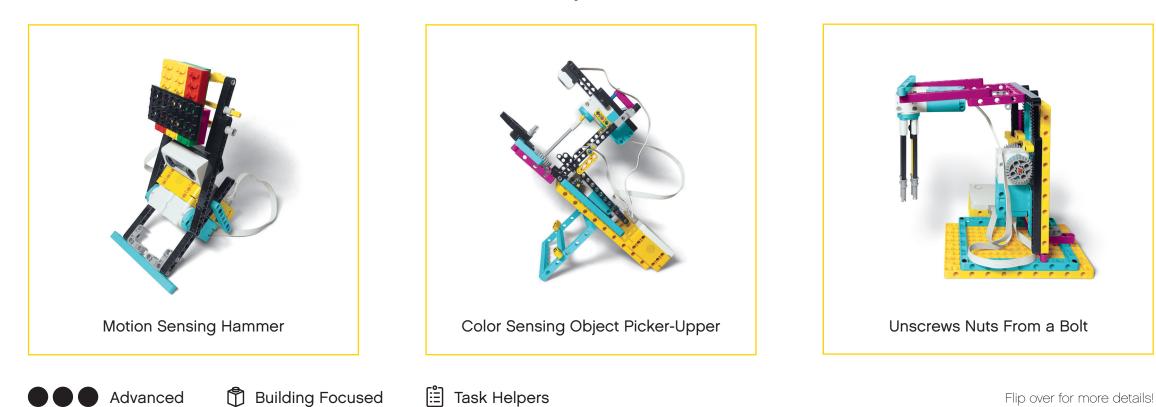
Develop tools that could be used by astronauts in space in order to perform typical tasks that happen on an EVA (extravehicular activity, or space walk): moving nuts between bolts or routing wires.



Think Like an Engineer: Think about your client as you build. Will the astronauts be wearing gloves? What is the visibility like through their helmets?

Think Like an Astronaut: What are some different features that tools need to have in space versus on Earth?

**Example Ideas** 



Made in collaboration with Tufts Center for Engineering Education and Outreach http://ceeo.tufts.edu

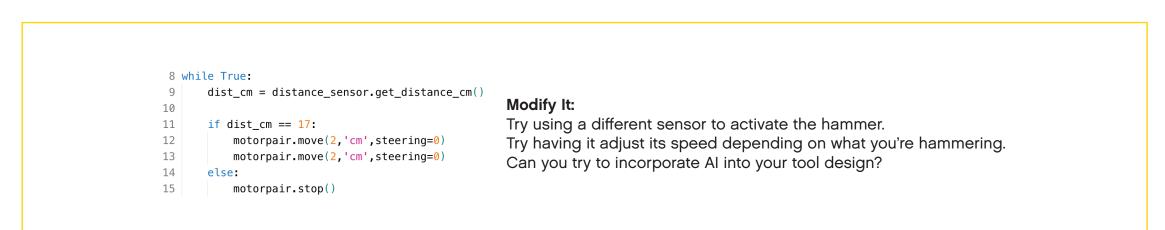
## **Build It!**

When using gears it's important to consider the benefits of gearing down versus gearing up: Gearing up gives you more speed but less torque and driving power compared to gearing down.



## Code It!

Code for the Motion Sensing Hammer:





**Challenge Yourself!** Put on snow gloves and a helmet and see if you can use your device in real life.

