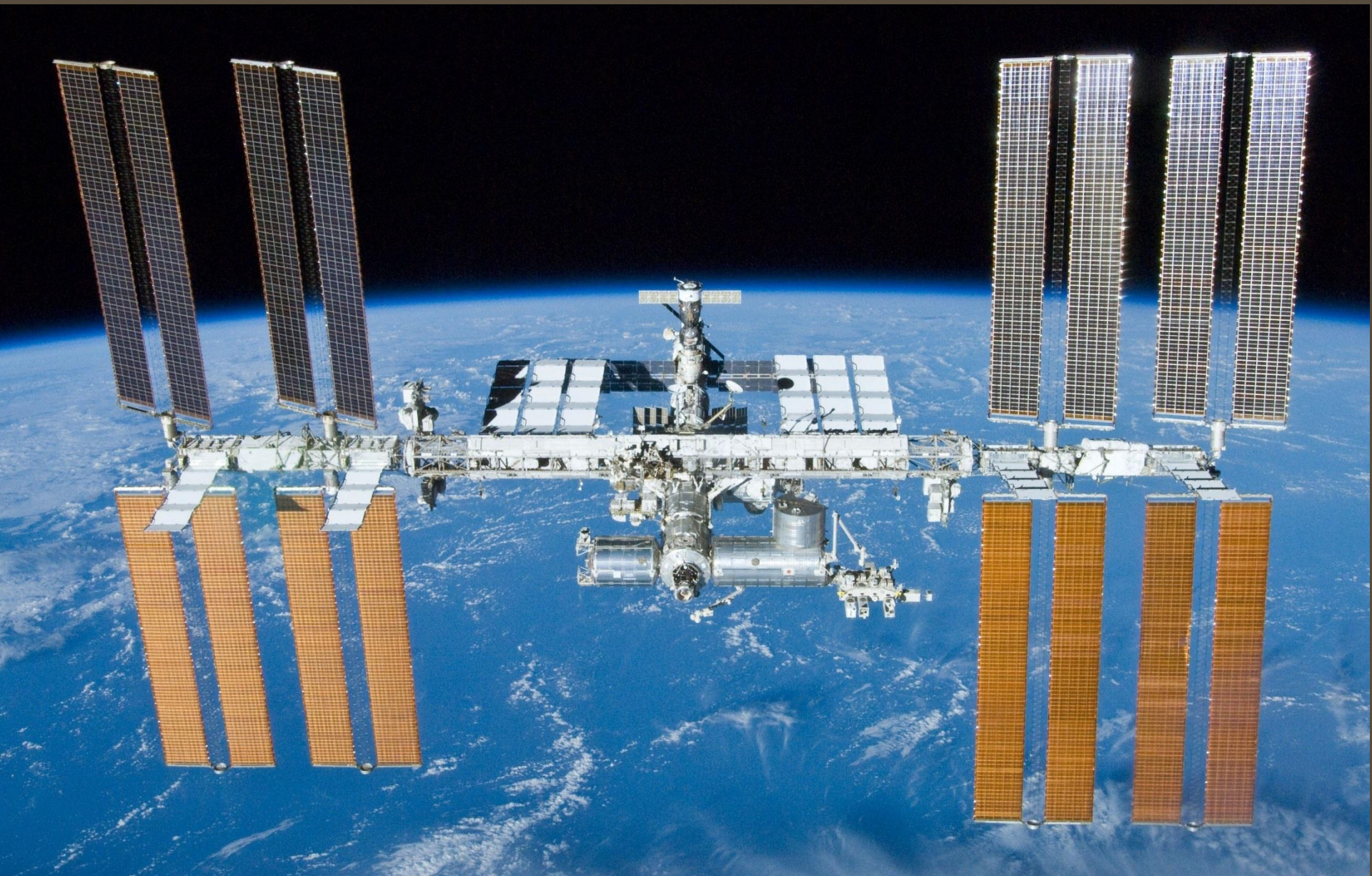
Build your own Space Station

This presentation will be used to educate elementary students on the purposes and components of the International Space Station and then allow them to build their own space stations with household objects and then present details on their space stations to the rest of the group.

# BUILD YOUR OWN SPACE STATION

Allison Bolinger
NASA Johnson Space Center



# THINGS TO THINK ABOUT WHEN YOU BUILD YOUR OWN SPACE STATION

What is the name of your Space Station?

What are the purposes of the different modules?

What sort of science experiments are performed on it?

How big is your Space Station?

How many people live on it?

How do crewmembers and supplies get there?

What countries are involved in building it?

What makes your Space Station unique?

# INTERNATIONAL SPACE STATION (ISS)

Only scientific laboratory orbiting 250 miles above the Earth

International collaboration between 5 space agencies representing 15 countries

Assembly started in 1998; Crewed since 2000

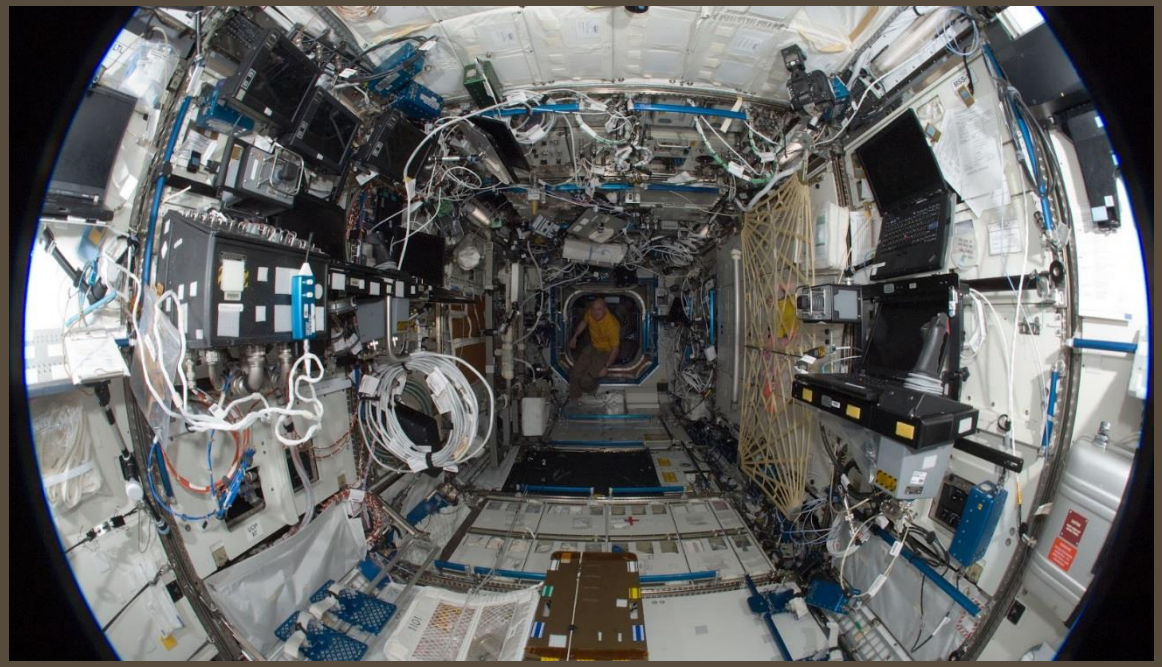
Currently have 6 people living and working there

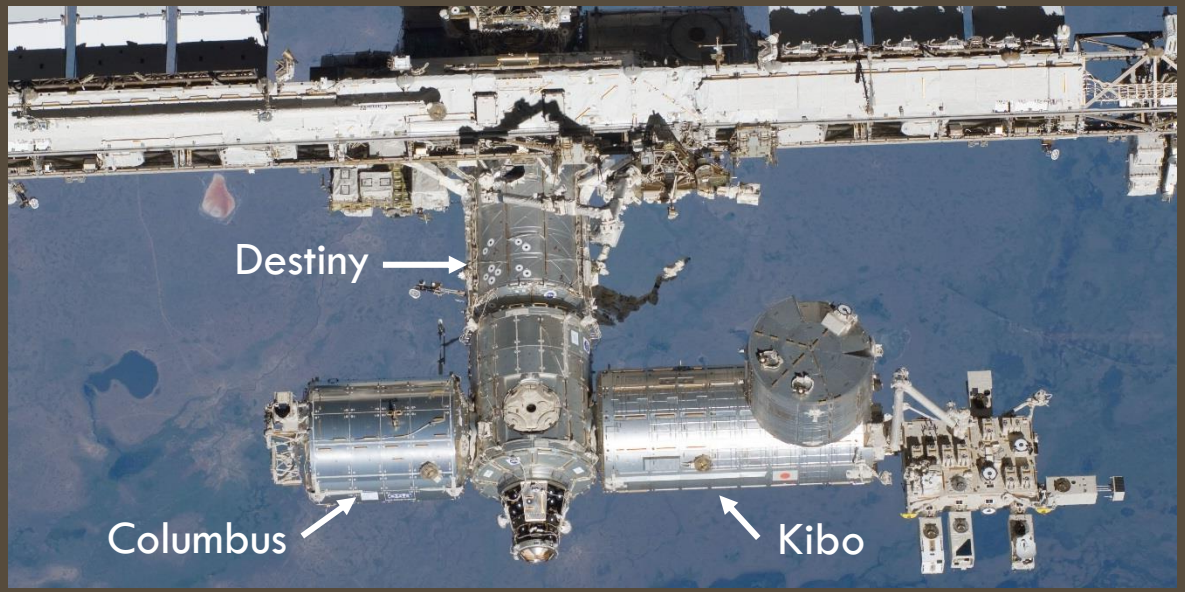
Habitable volume of an average 6 bedroom house

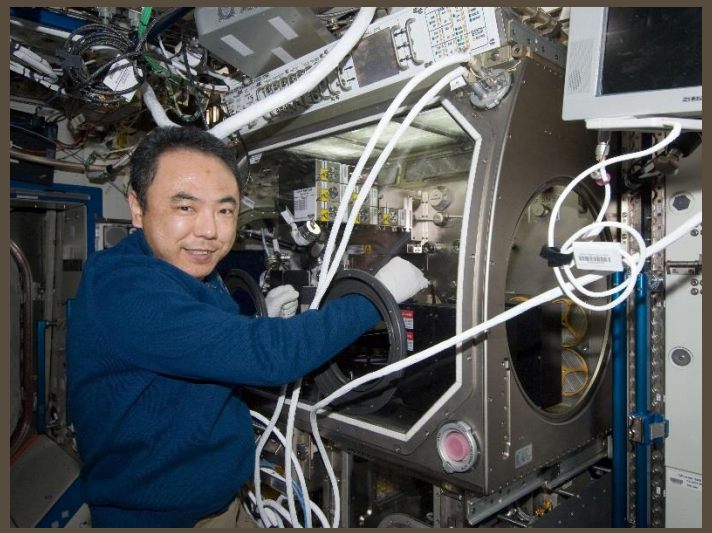
Including solar arrays, size of a football field

Weighs ~1,000,000 pounds

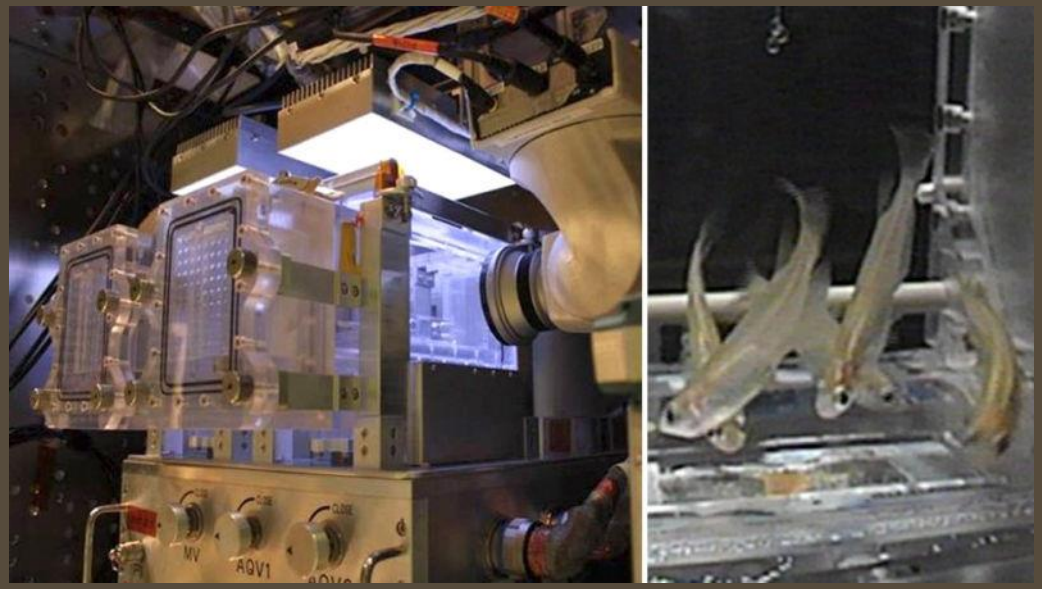
# LABORATORY

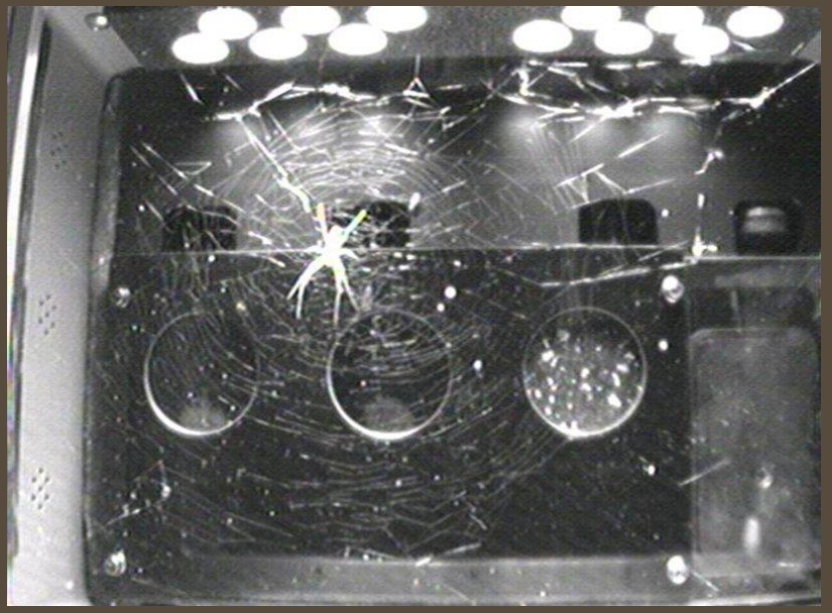




# LABORATORY



# GYM

Combined Operational Load-Bearing External Resistance Treadmill (COLBERT or T2)

Advanced Resistive Exercise Device (ARED)

Cycle Ergometer with Vibration Isolation and Stabilization (CEVIS)

# KITCHEN



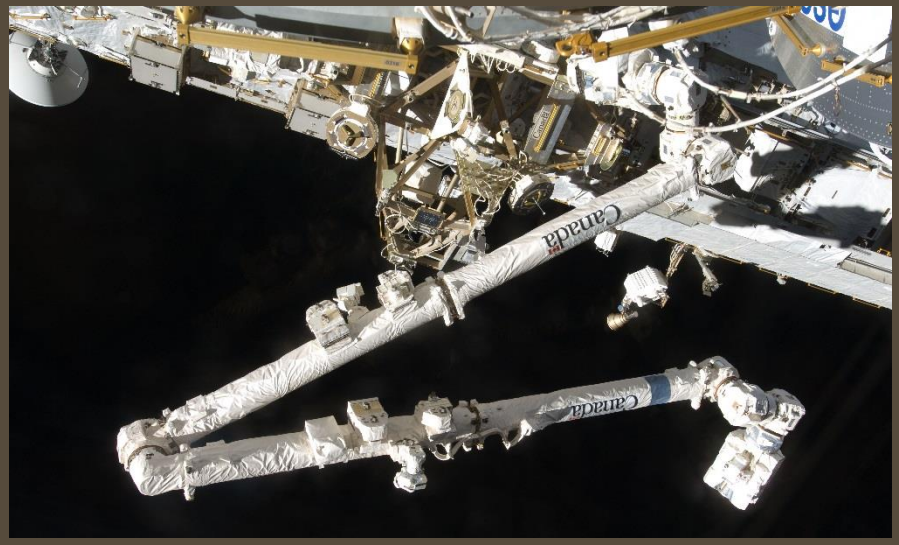
# BATHROOM

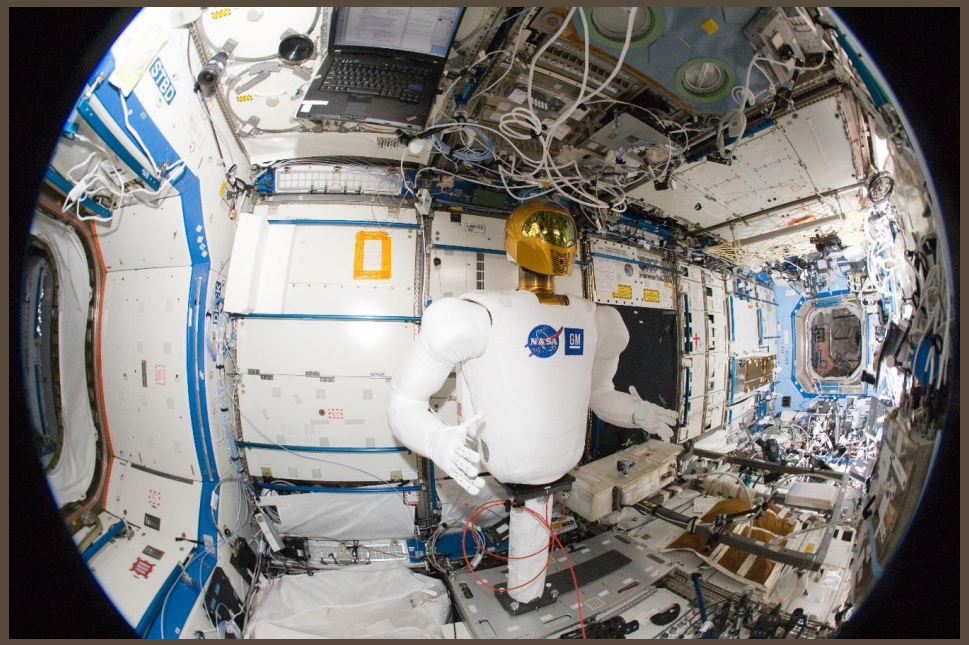
# BEDROOM

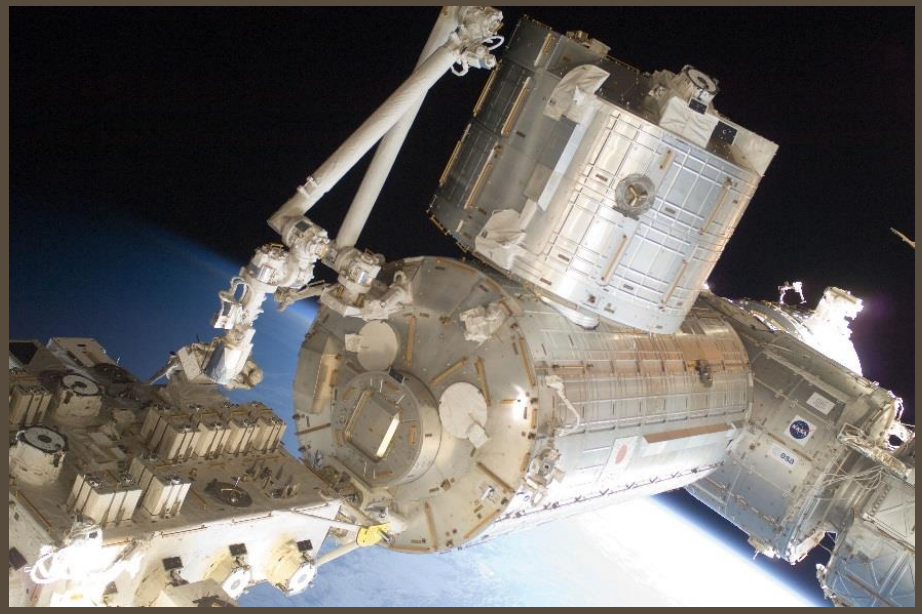
# CLOSETS

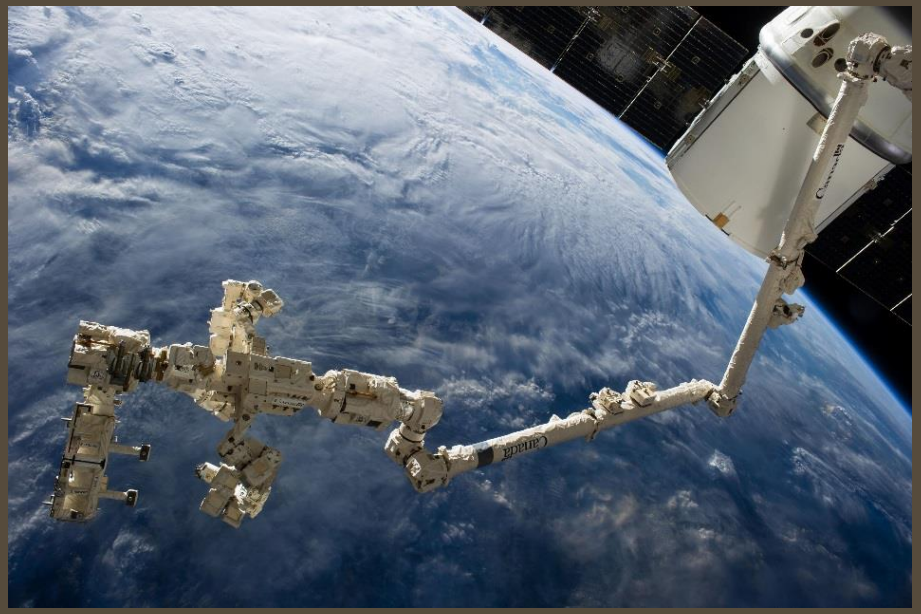


# ROBOTICS

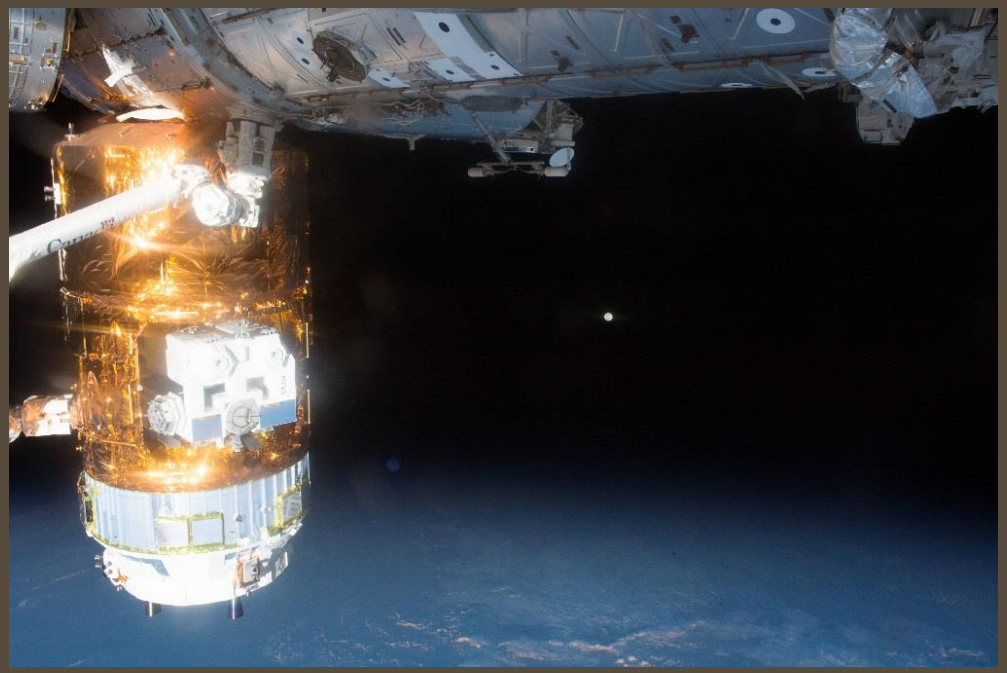


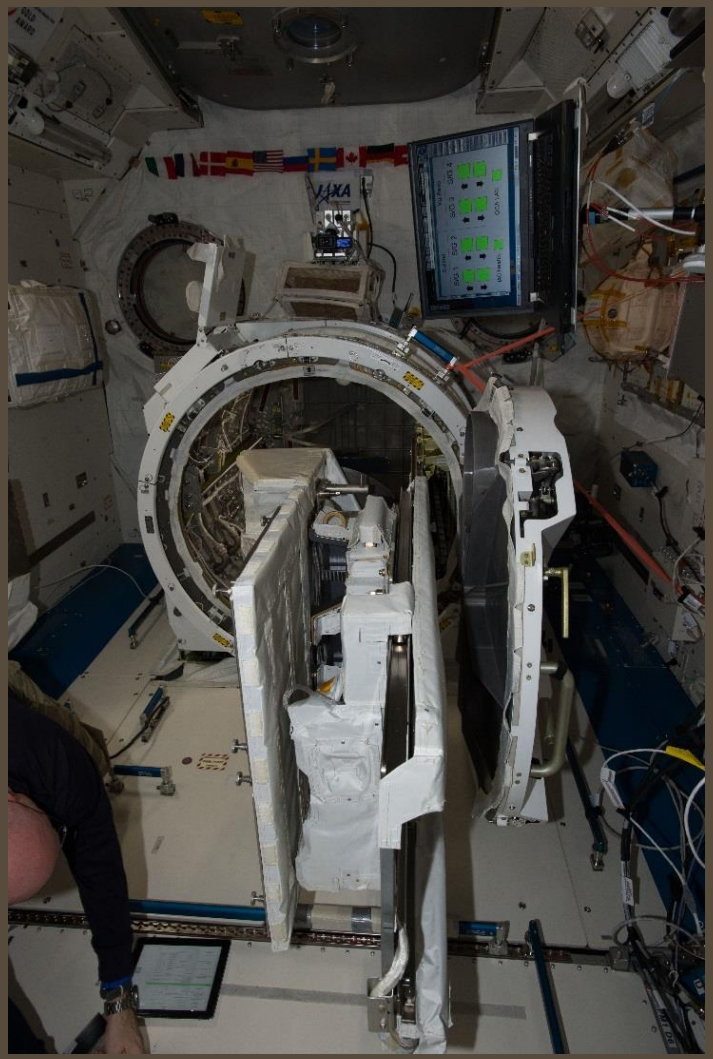


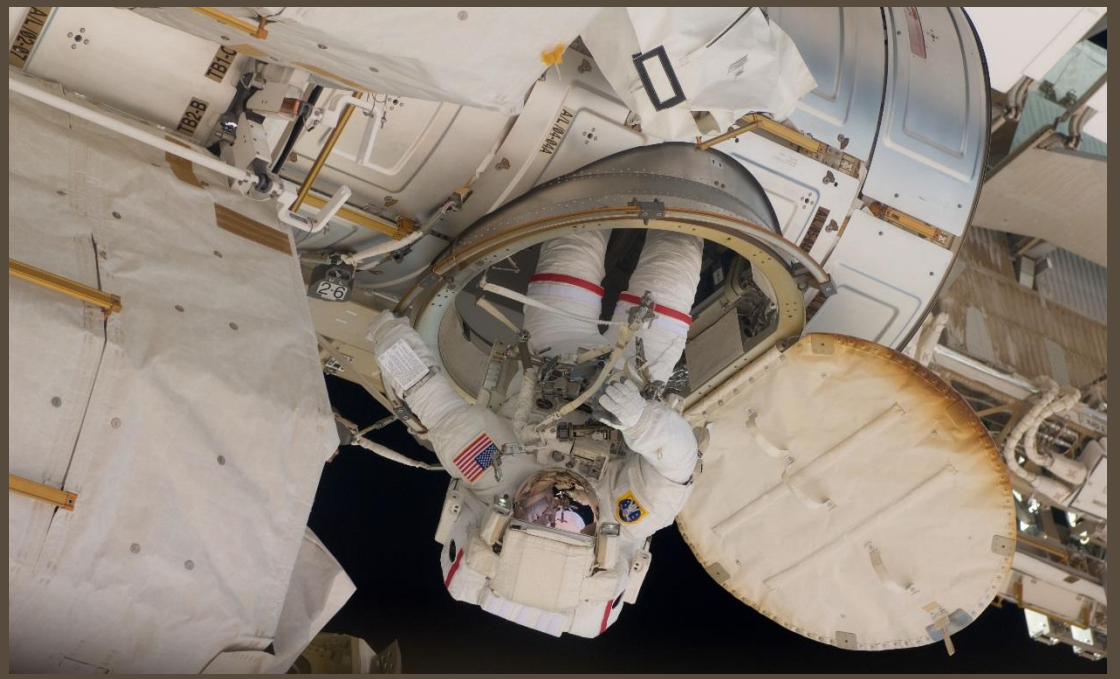


# DOCKING PORTS

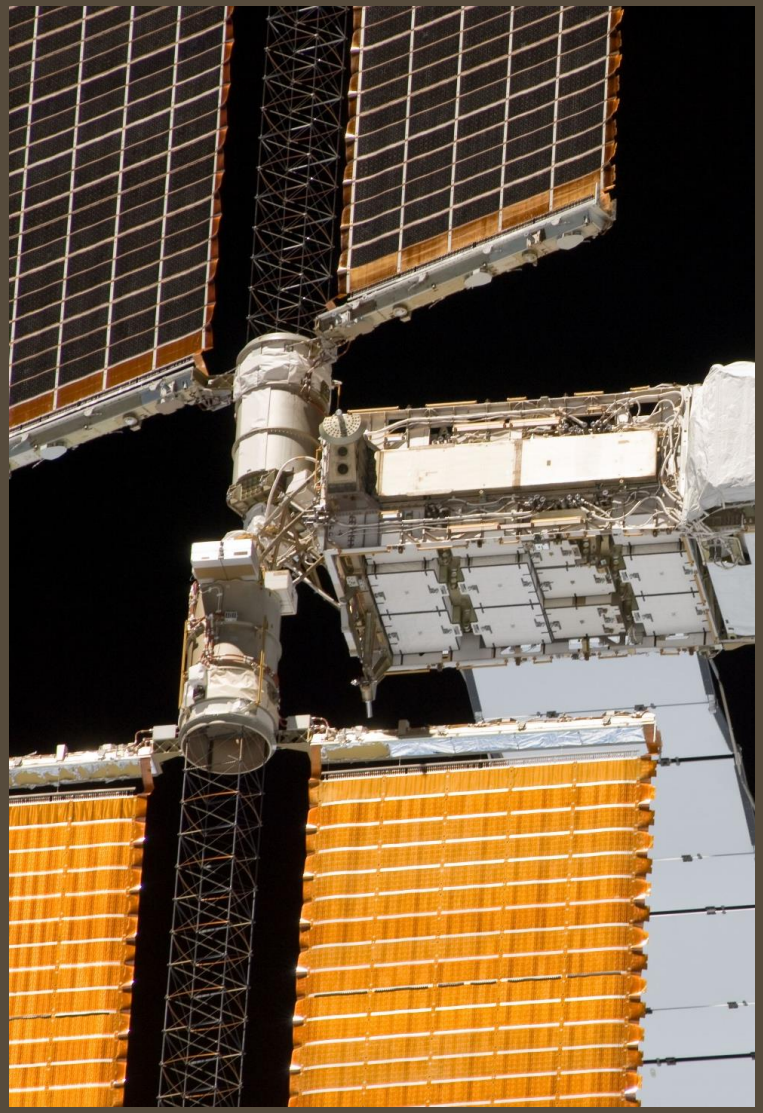


# AIRLOCK





# POWER



# WINDOWS

# FUN


# FUN