



ISS Astrobee Facility

Sponsoring Org/Office Code: ISS Program, OZ3

Name of Forum: Congreso Espacial Centroamericano 2023

Date: September 14th, 2023



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Intelligent Systems Division (Code TI)



Project Description



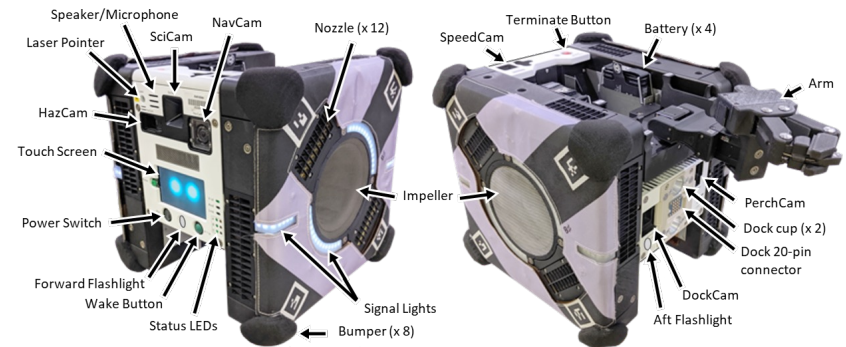
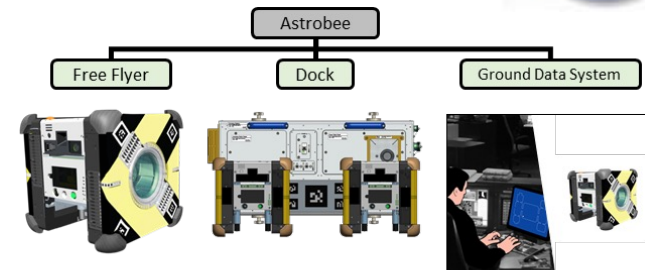
Chris Cassidy, GMT 248 2020



Astrobee Facility Overview

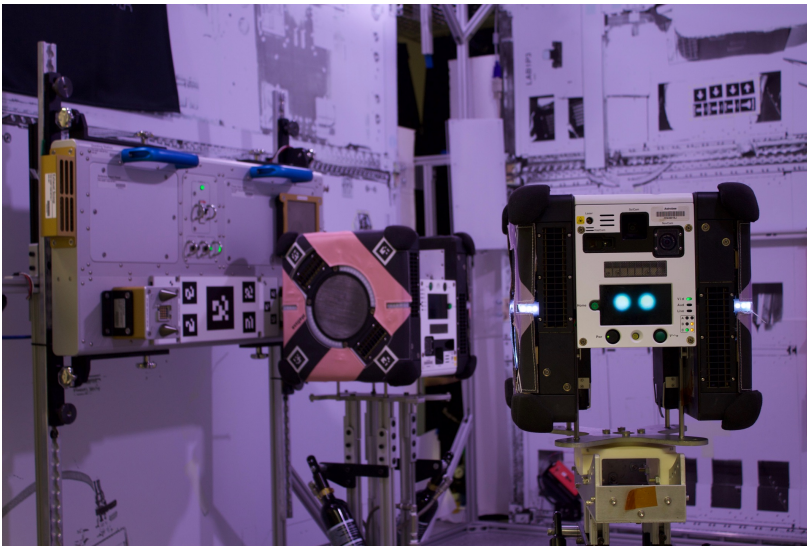


- Astrobee research platform ecosystem
 - Astrobee hardware: Ground and flight units
 - Ames Research Center Experimental Facilities
 - Astrobee Robot Software
 - Access to the International Space Station
- Support different research: Artificial Intelligence, manipulation, computer vision, Human Robotic Interactions, many, many other fields!



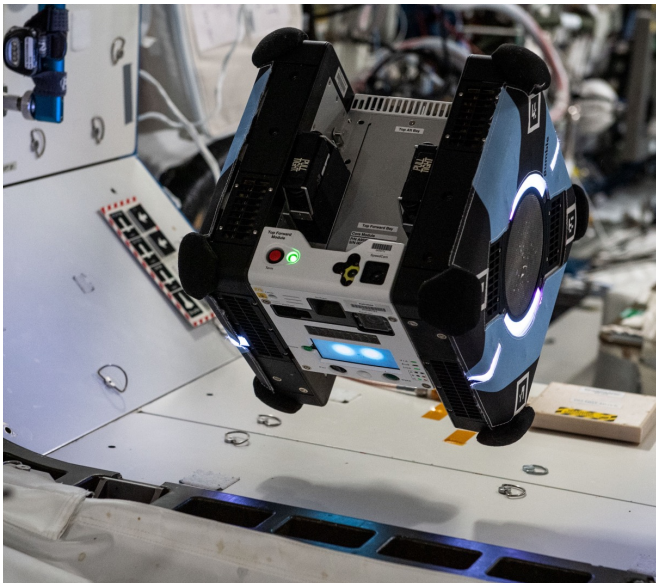


Granite Lab





Robotic Caretaking (ISAAC)



Close-up targeted inspection of hatch seals



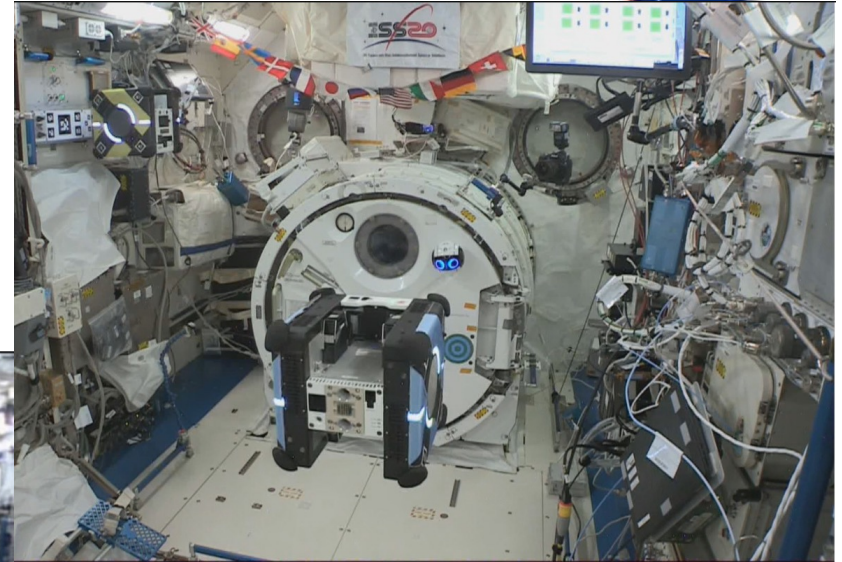
Coordinated ISS interior survey with multiple Astrobees



Student Programming (Kibo-RPC, ZR)



The 2023 Zero Robotics Middle School Competition included gesture recognition on Astrobees for the first time.



<https://jaxa.krpc.jp/>



www.nasa.gov/astrobee