Jet Propulsion Laboratory
California Institute of Technology

Section 355 – Payload and Small Spacecraft Mechanical Engineering

Mechatronics at JPL

Lucy Du

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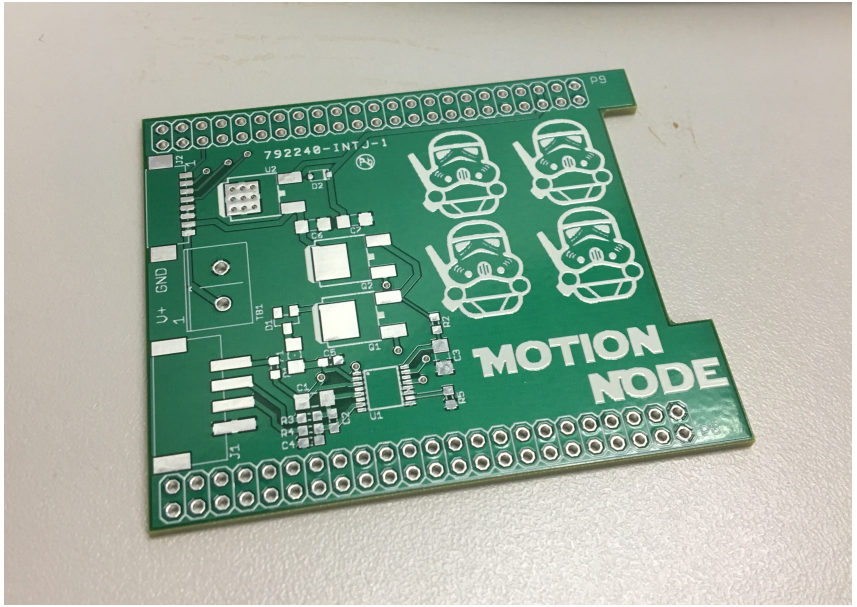
Planetary Landing Testbed (PLT)

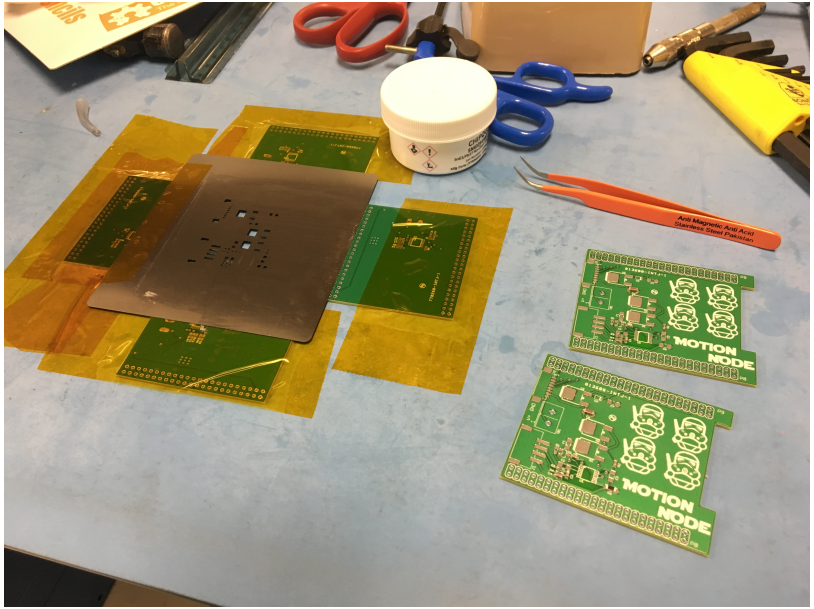
BeagleBone Shield

- PCB Routing in Eagle and Altium

Planetary Landing Testbed (PLT)

- BeagleBone Shield





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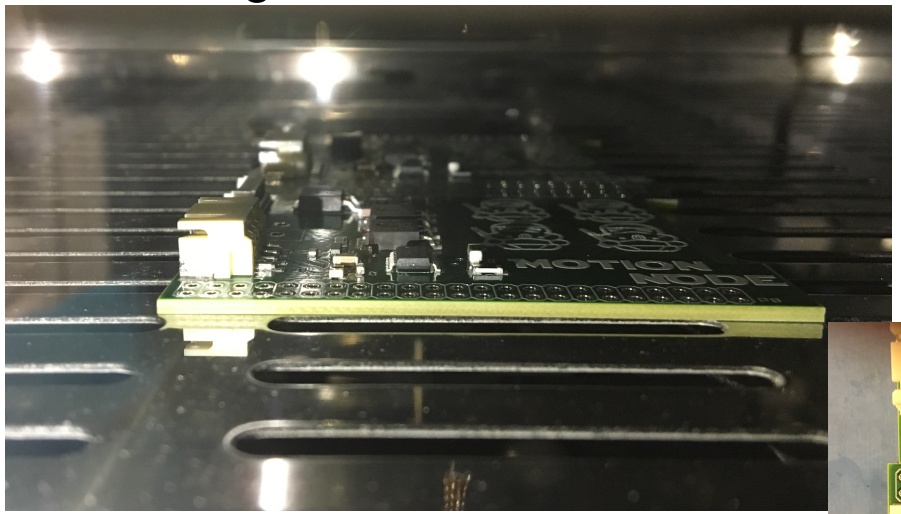
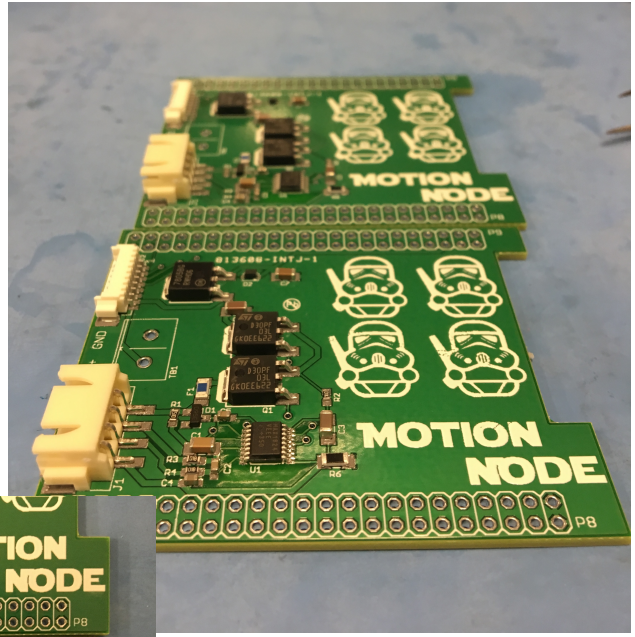
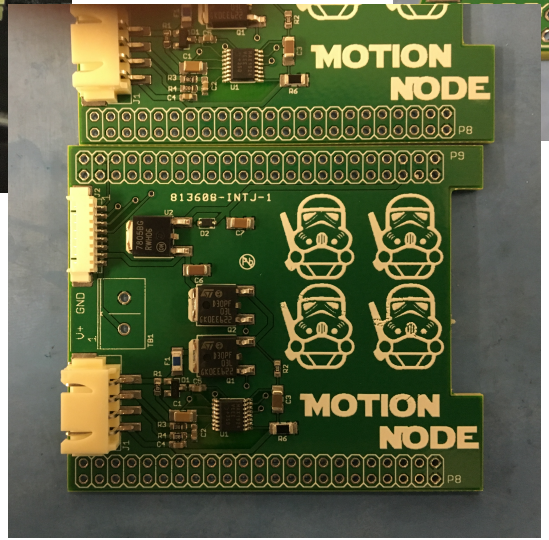


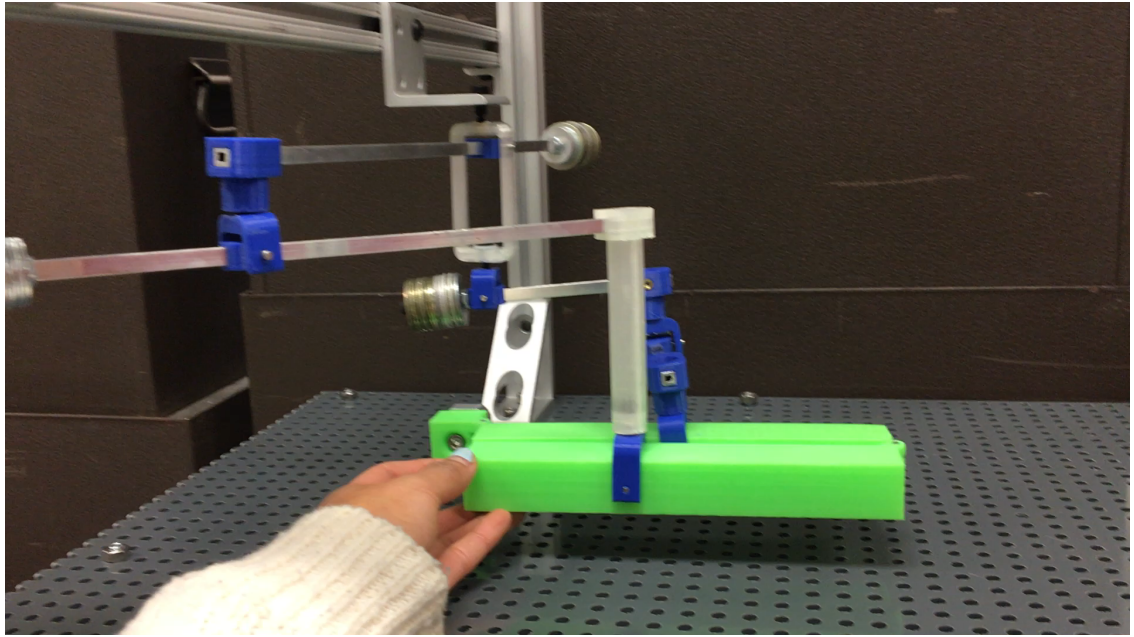




BoomCo (SWOT and NISAR)

Gravity Compensation Fixture

- Rapid prototyping and modeling of a concept to offload gravity while doing multiple boom deployments



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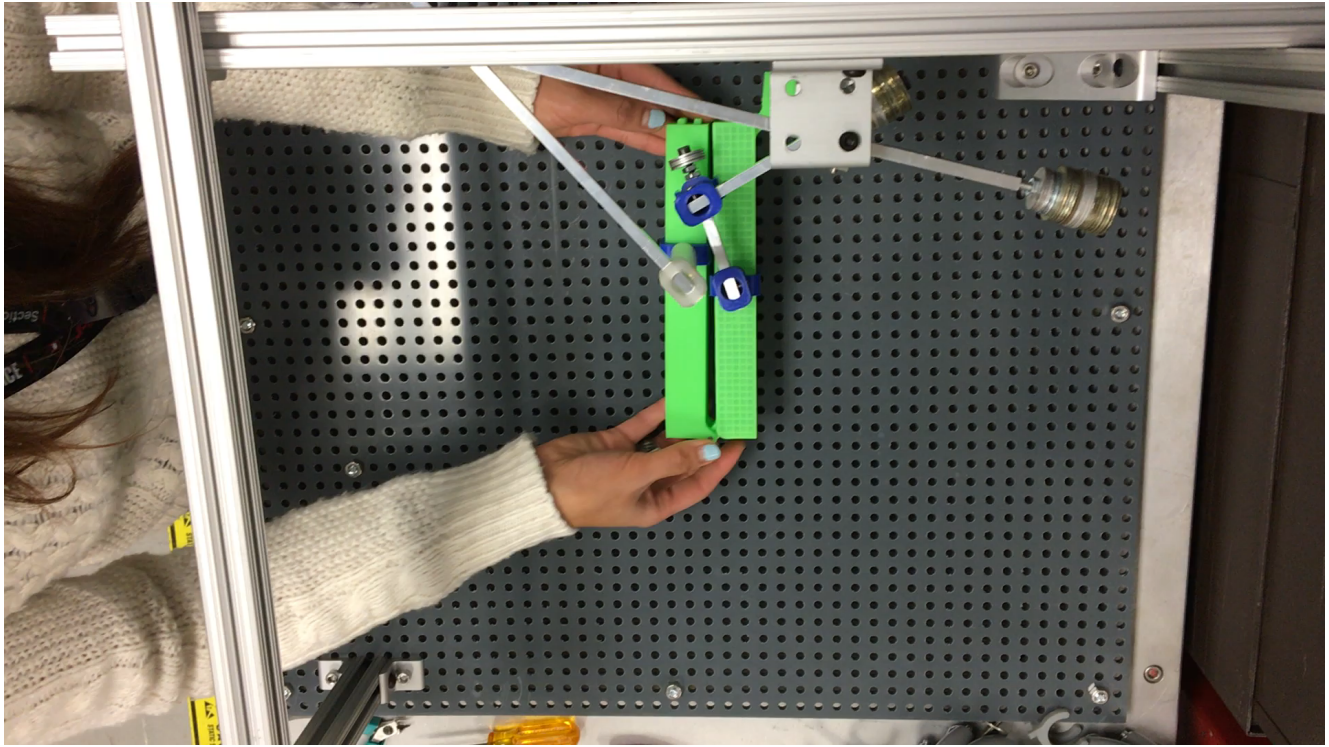
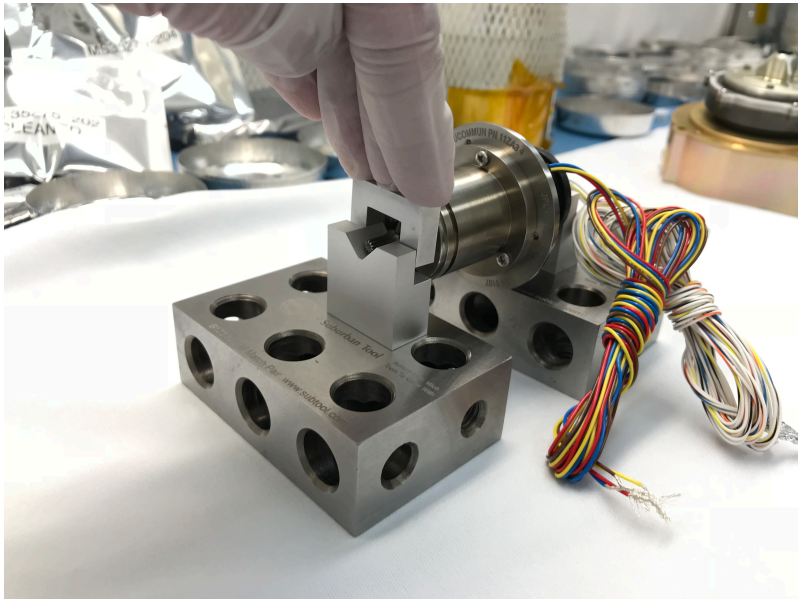


BoomCo (SWOT and NISAR)

- Standard Single Drive Actuators (SSDA)

Assembly and acceptance test of actuators for SWOT and NISAR.



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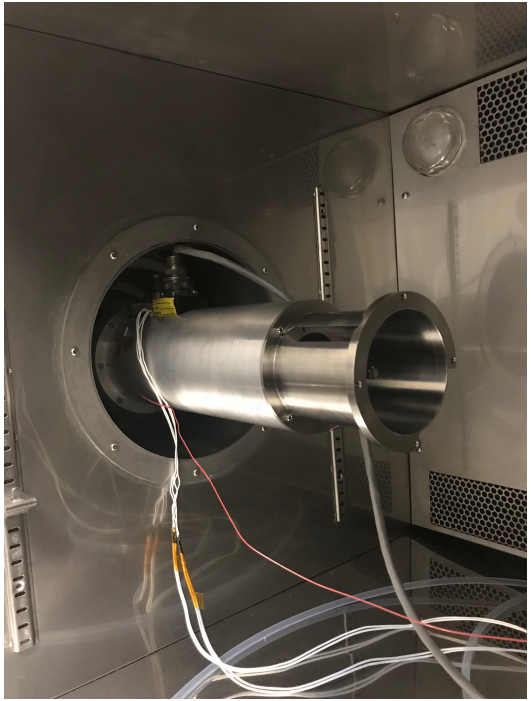

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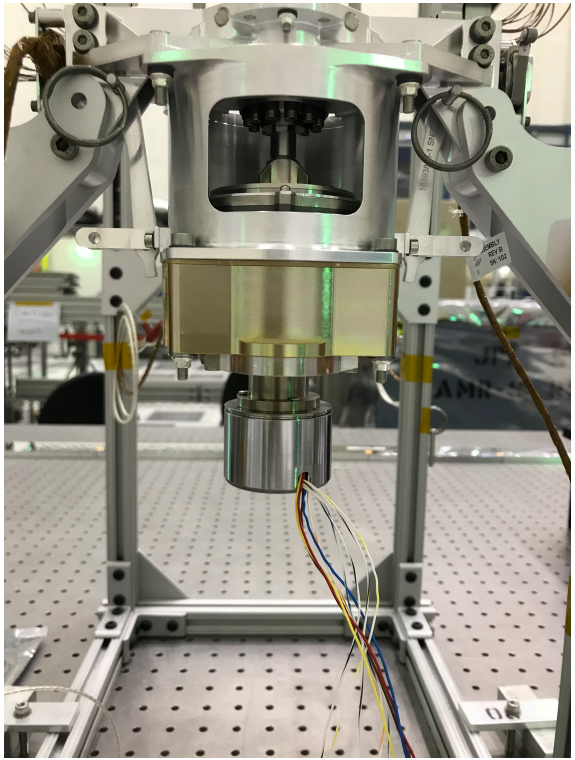

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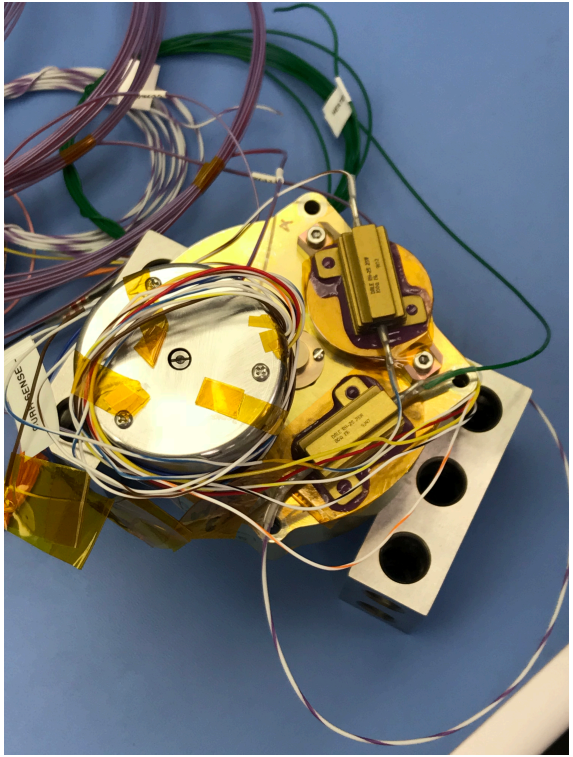

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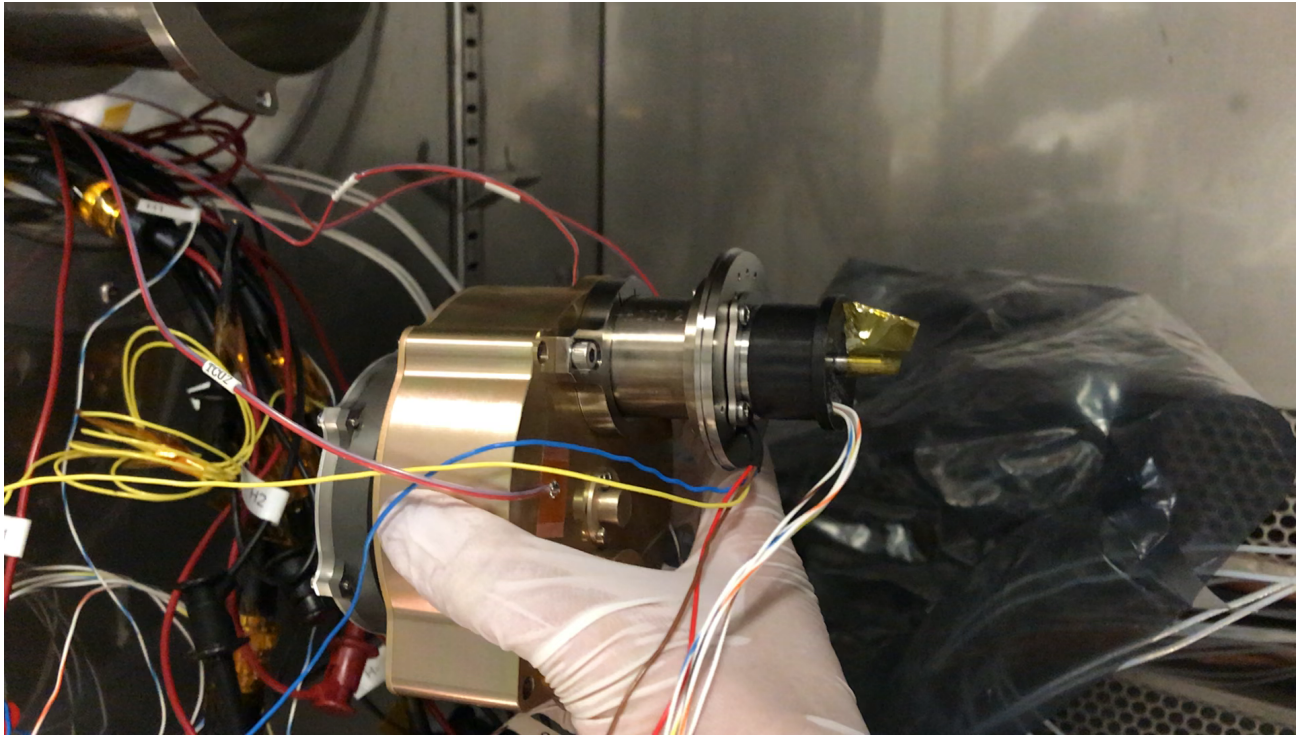
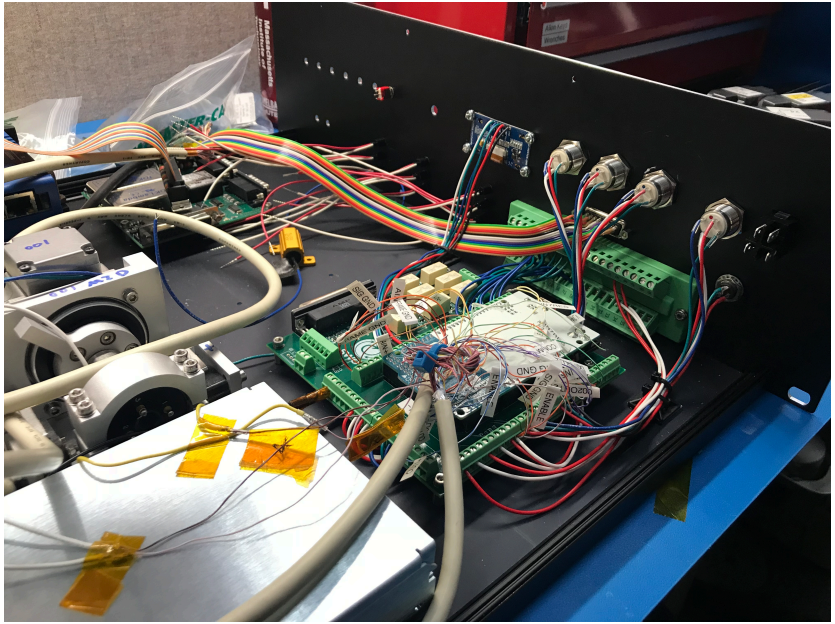


BoomCo (SWOT and NISAR)

- PayLoad Interface Simulator (PLIS)

EGSE to simulate electrical signals of boom deployment



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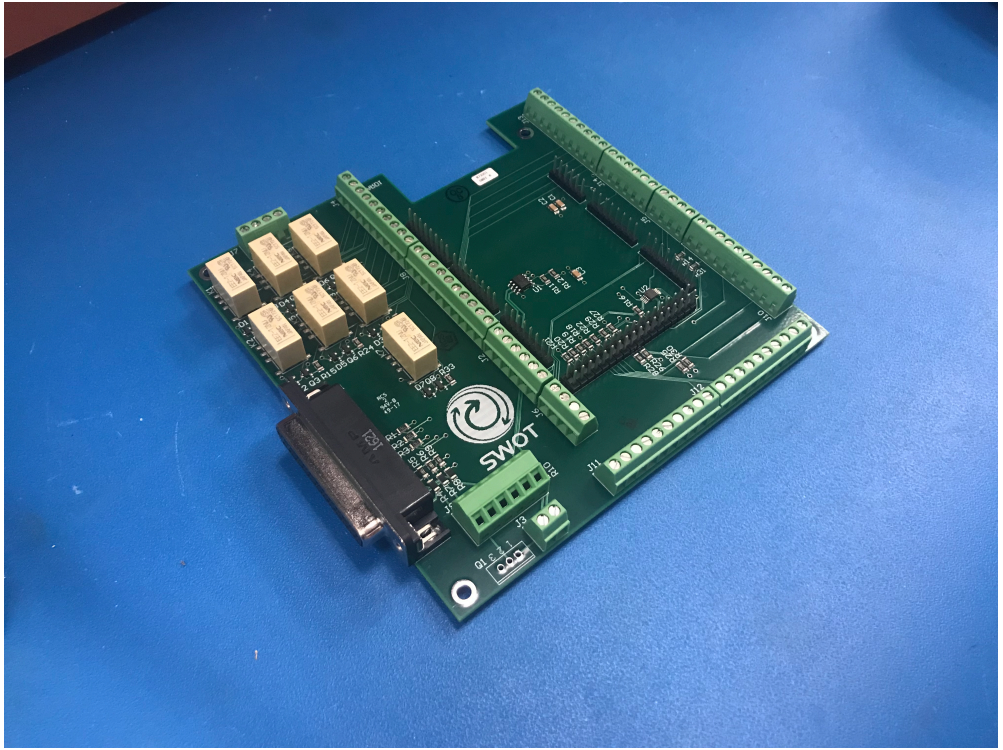
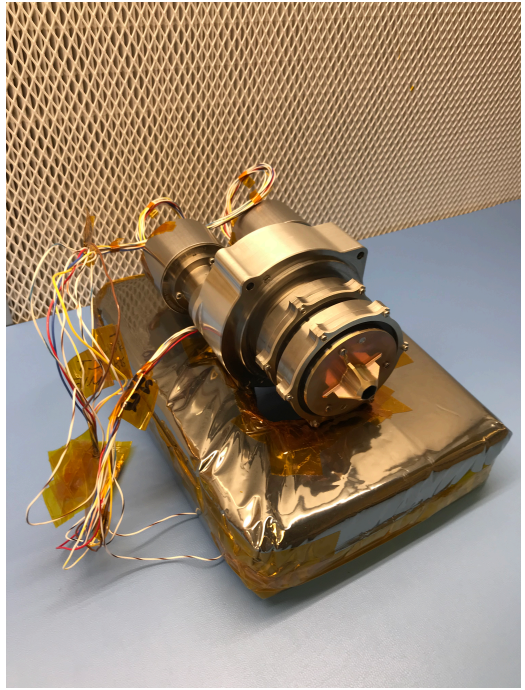


Sentinel-6

- Standard Dual Drive Actuators (SDDA)

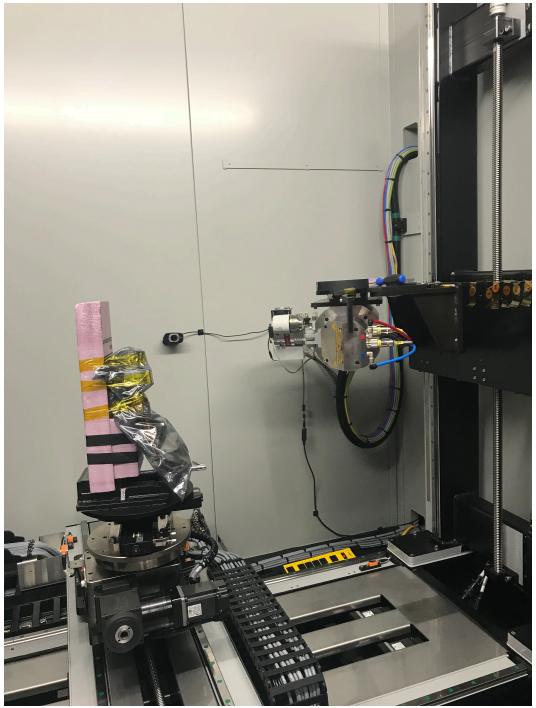
Fully Redundant (mechanically and electrically)

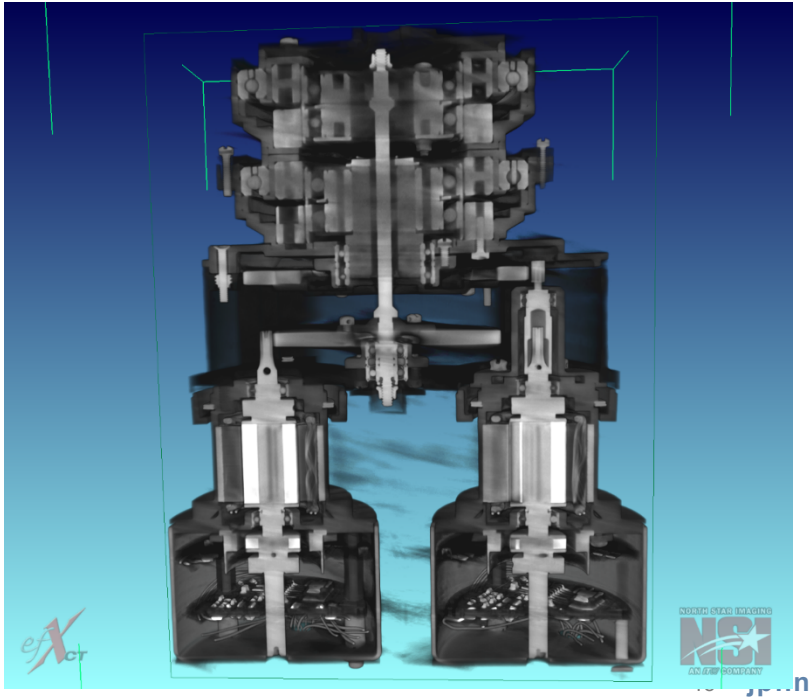


Sentinel-6

- Standard Dual Drive Actuators (SDDA)

CT Scanning of actuator to determine cause of anomaly during vibe testing





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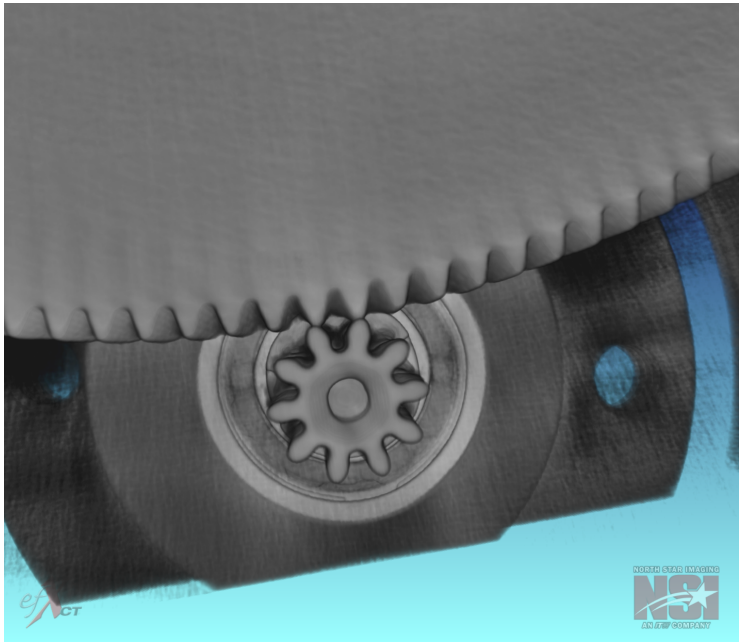

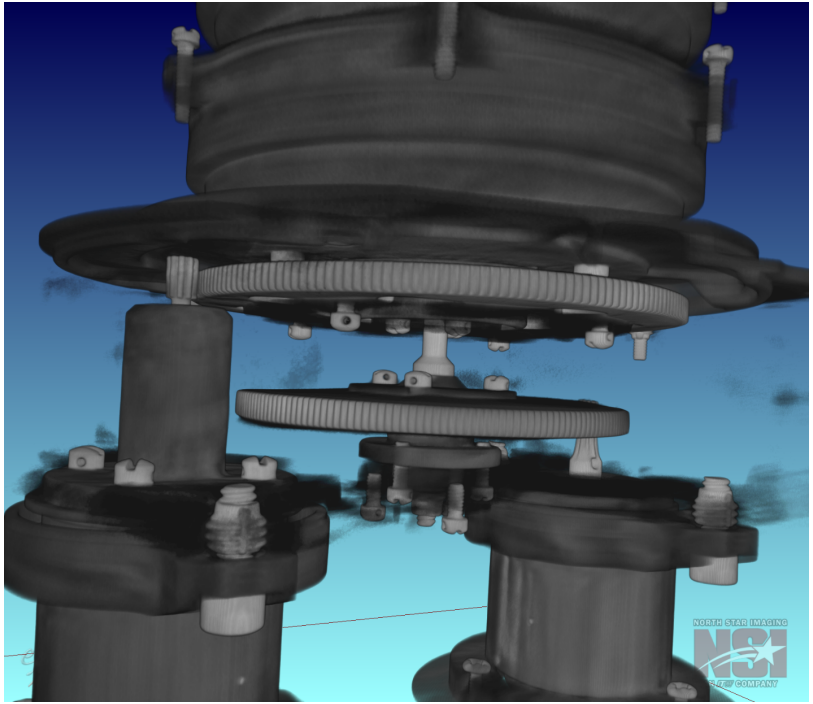

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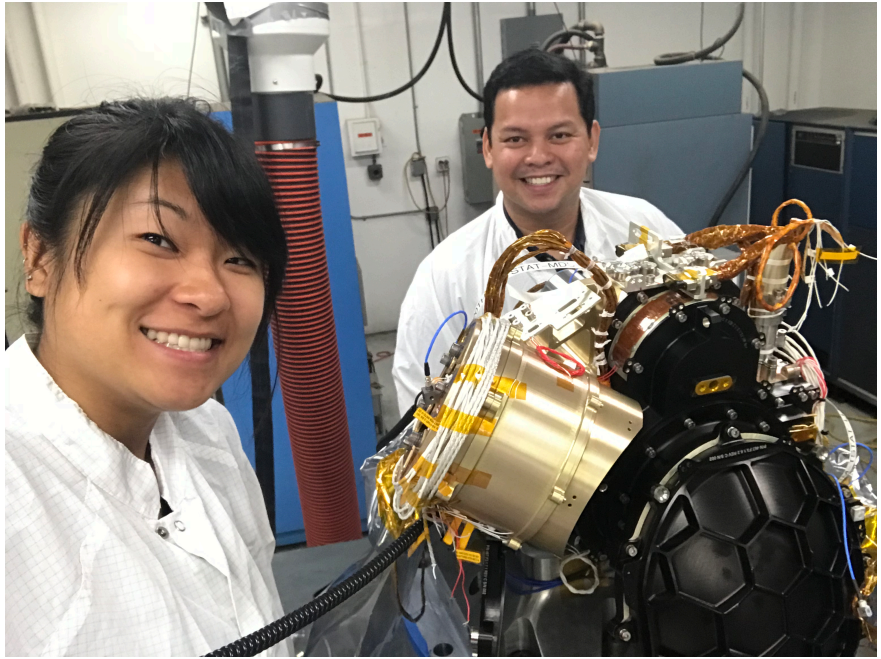
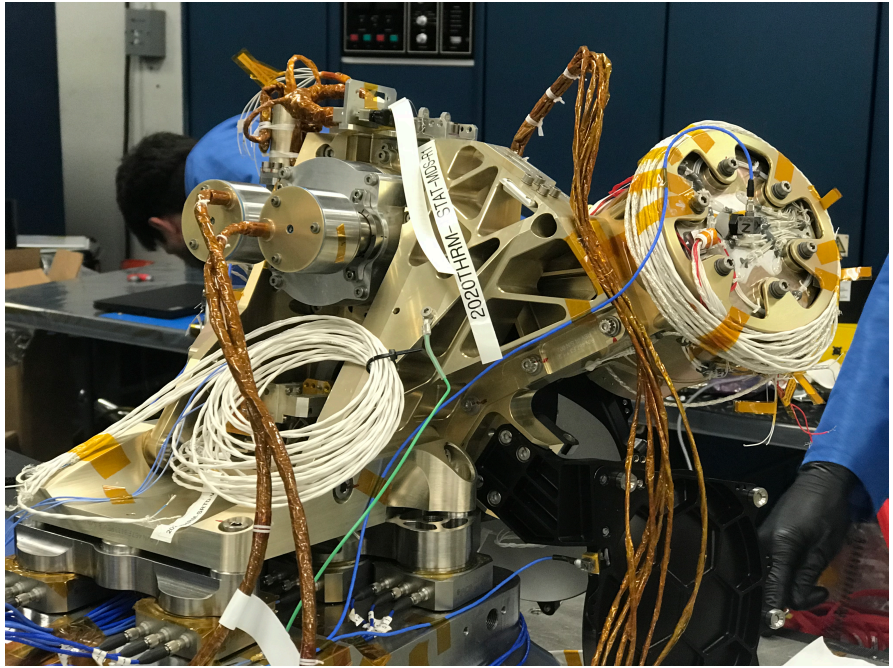
- Standard Dual Drive Actuators (SDDA)

AMR-C Vibration Testing





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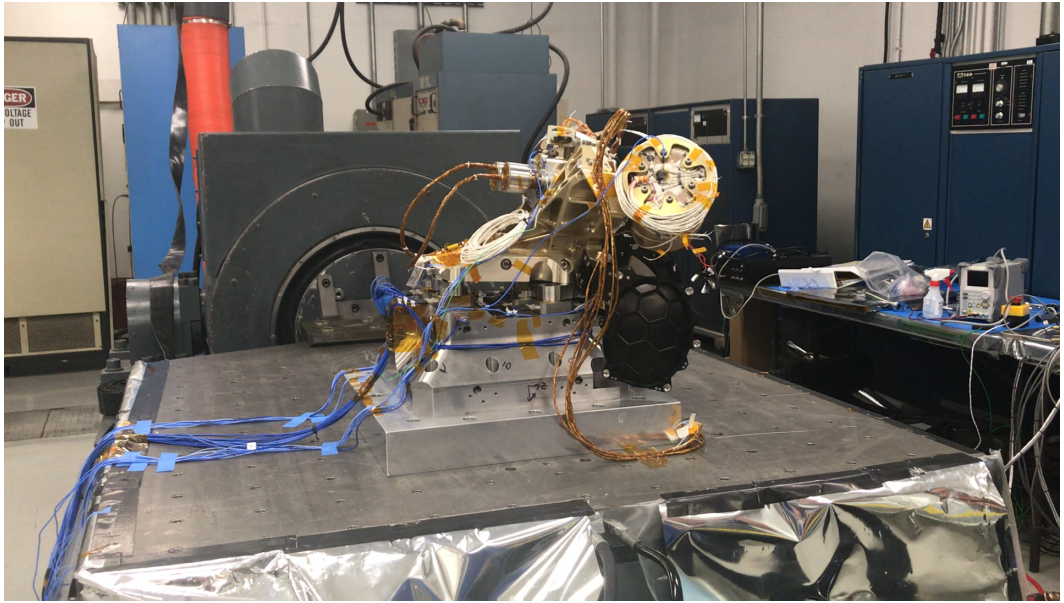

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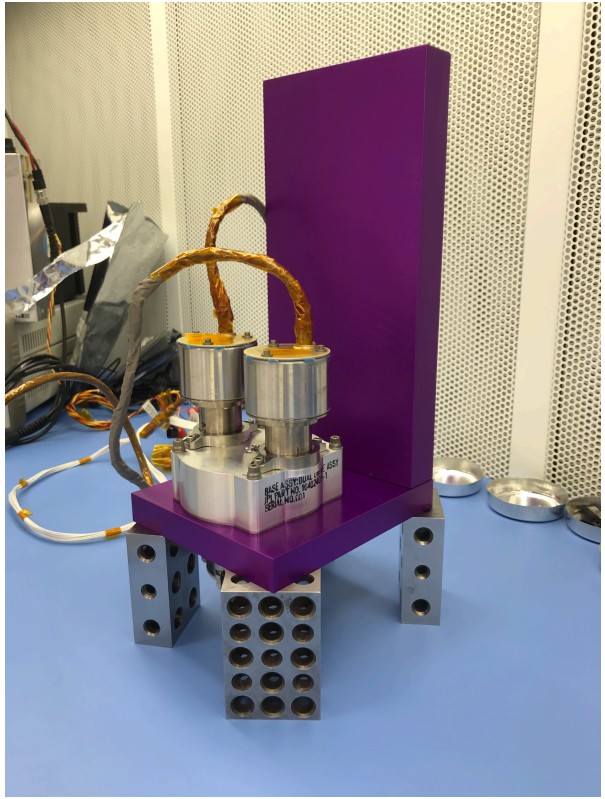

Mars 2020

- High Gain Antenna (HGA) Actuator Testing

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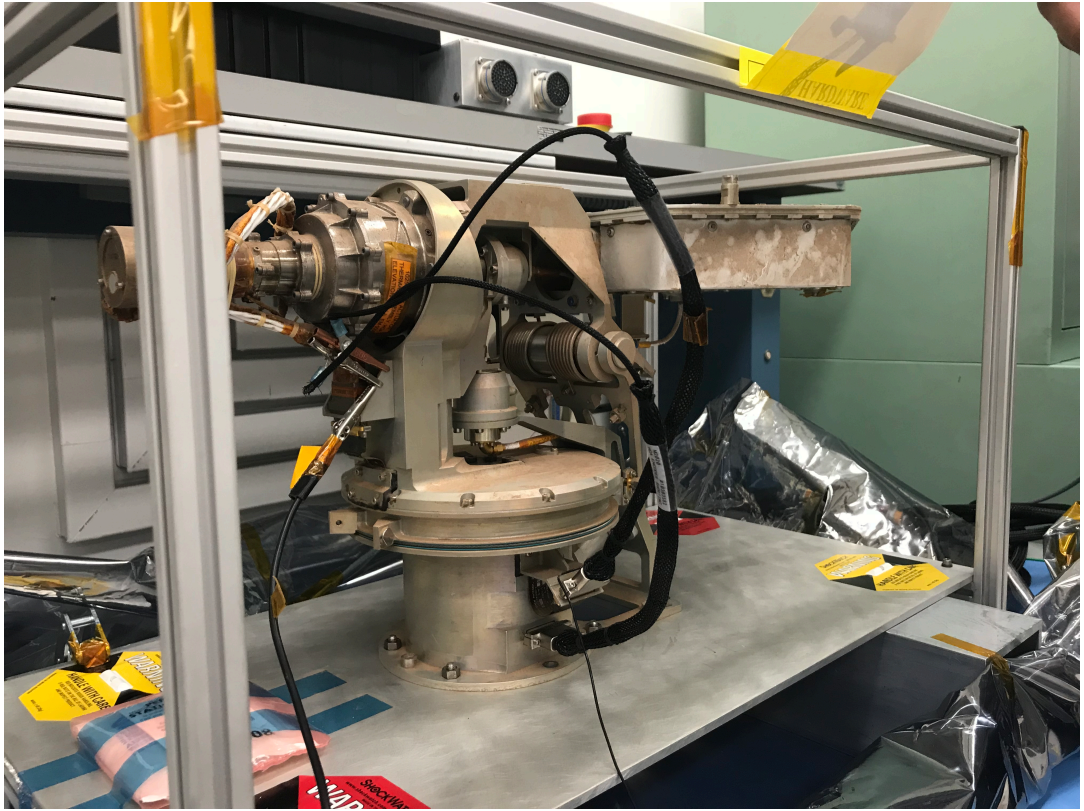

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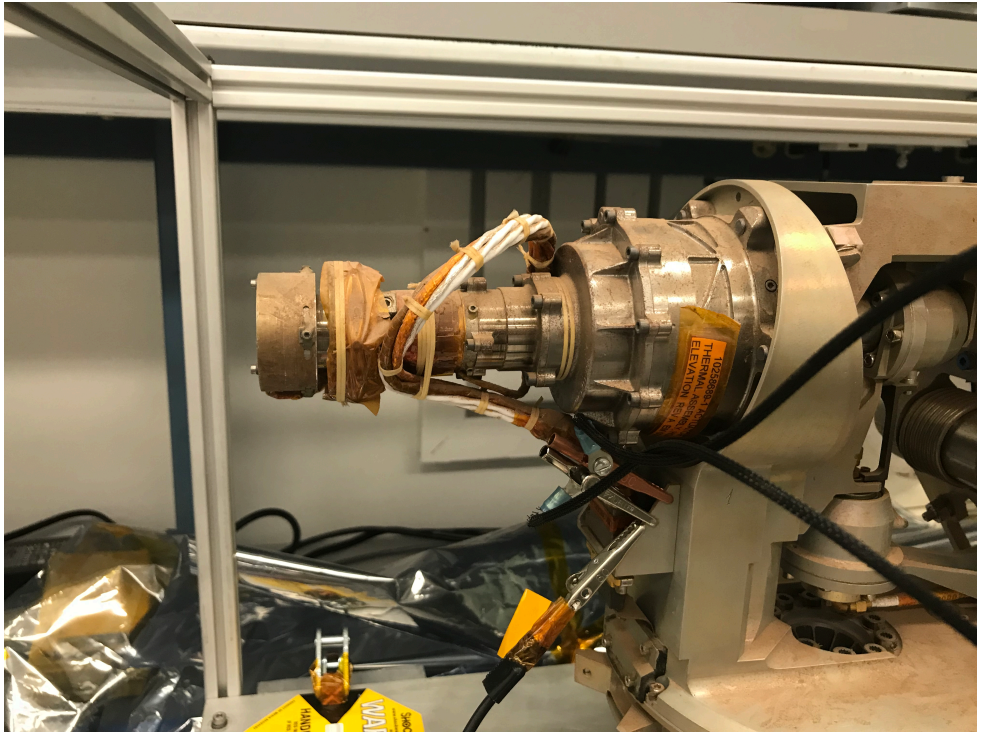

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