A night-time photograph of the Space Shuttle Discovery on the Mobile Launcher Platform (MLP) being moved by a crawler-transporter. The MLP is illuminated from below, and the shuttle is lit from the side. The crawler-transporter is a large, multi-wheeled vehicle that carries heavy loads across the launch complex. The background shows the launch complex at night, with various structures and lights visible. The text "Discovery" is visible on the side of the MLP. The text "NASA" is visible on the side of the MLP. The text "NASA" is visible on the side of the MLP.

Boosting Engineering Science and Technology (BEST) Robotics Program and Careers in Engineering

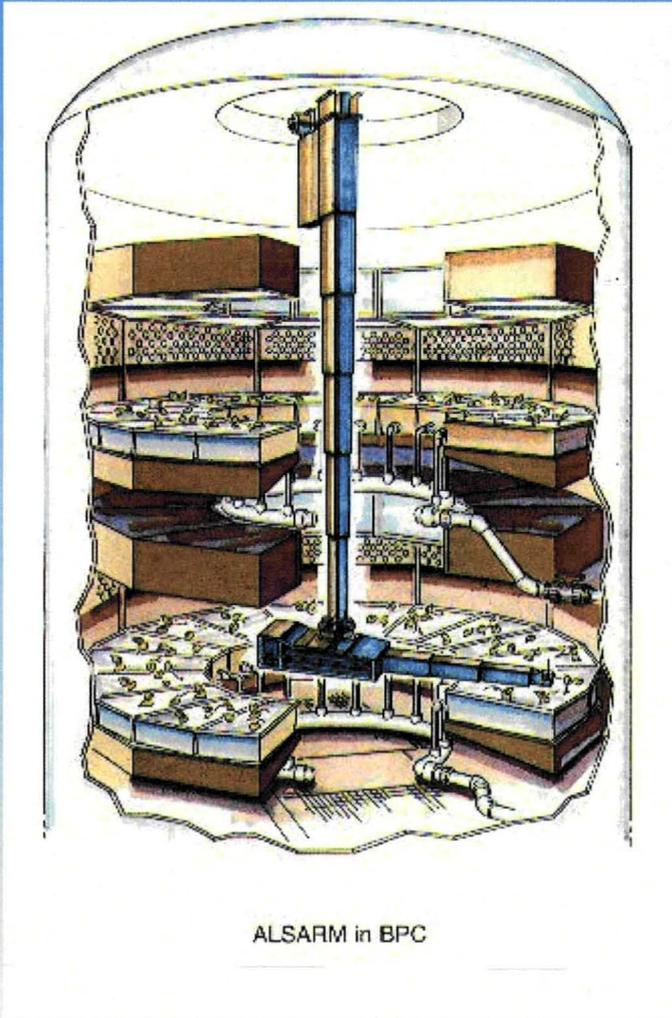
Andy Bradley
Control Systems Engineer
NASA – Kennedy Space Center
October 2011

SOME OF MY PROJECTS

- Ground Systems Engineering
- Electrical Systems
- Software
- Robotics
- Data Acquisition and Recording
- Launch Control Systems

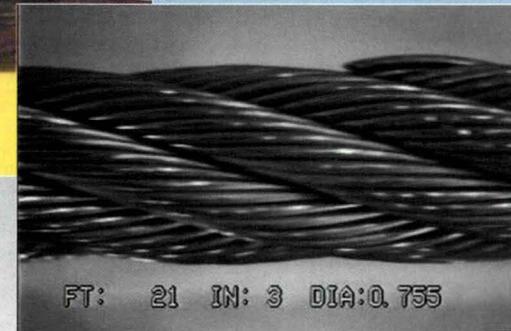
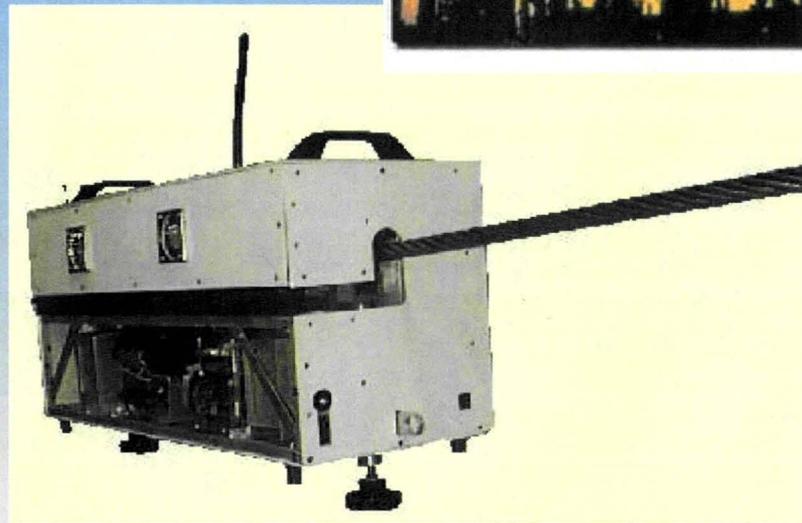
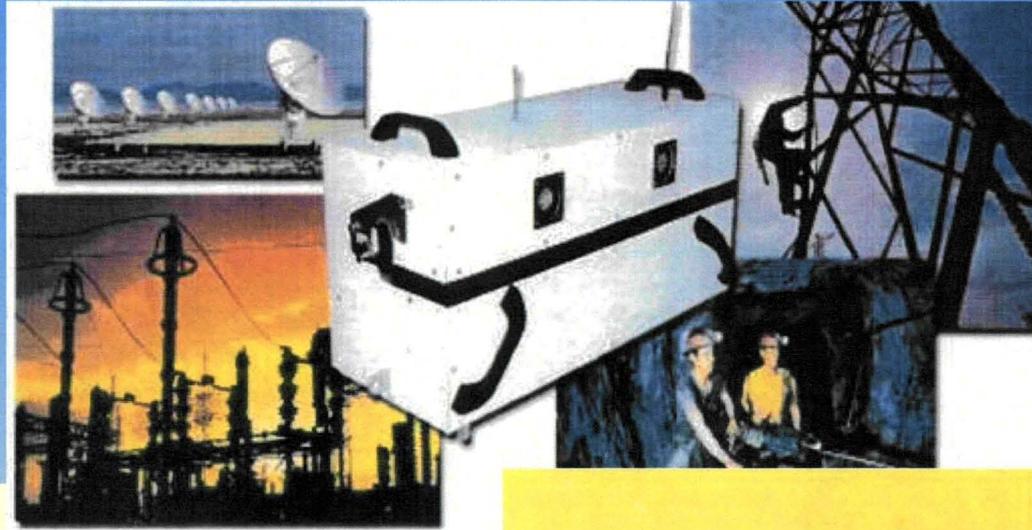
ALSARM

Advanced Life-Support Automated Remote Manipulator



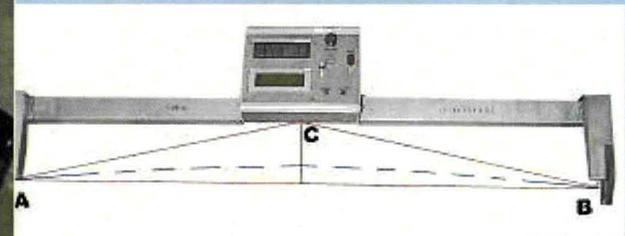
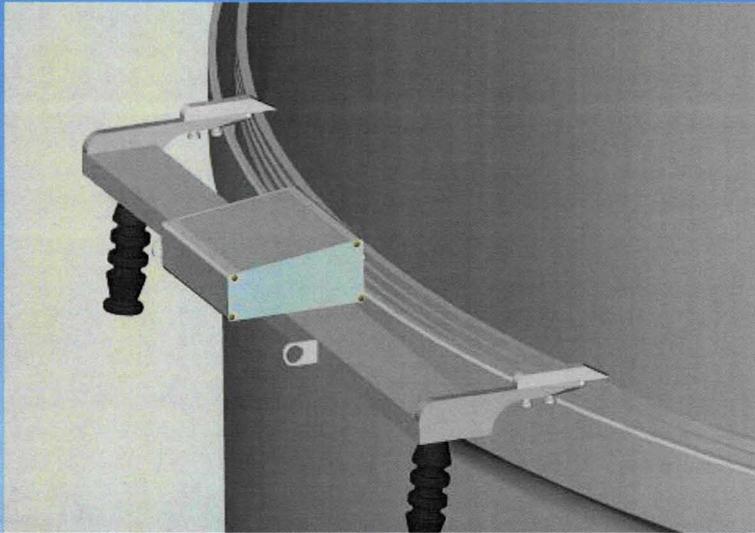
CLIM

Cable Line Inspection Mechanism



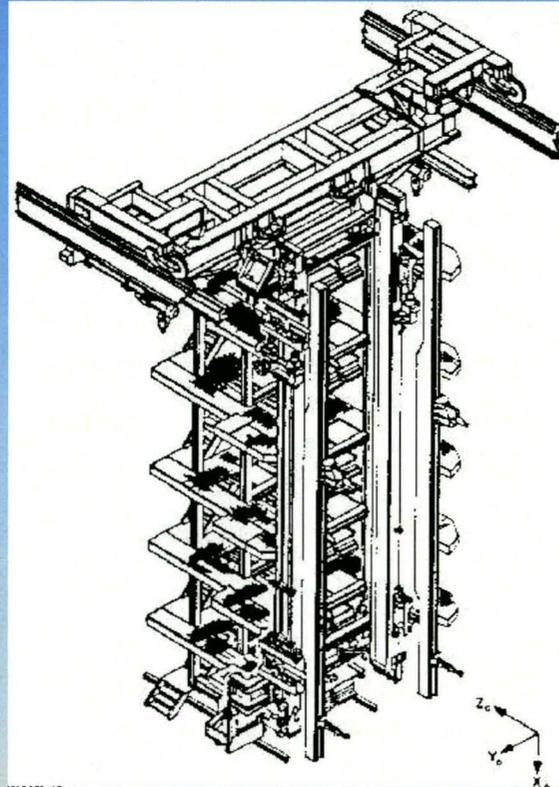
CMT

Circularity Measurement Tool



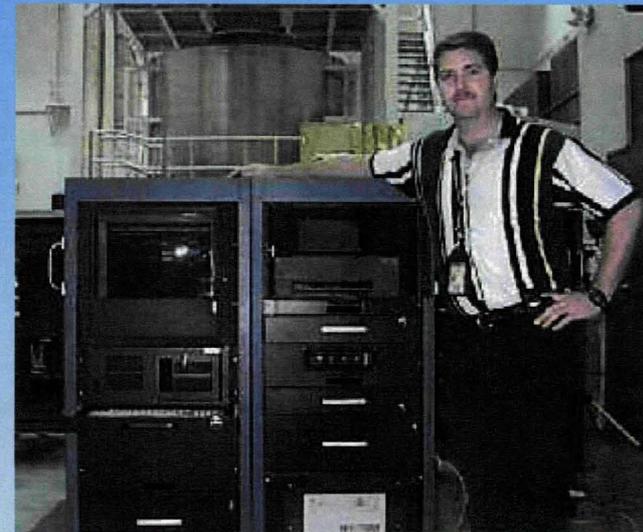
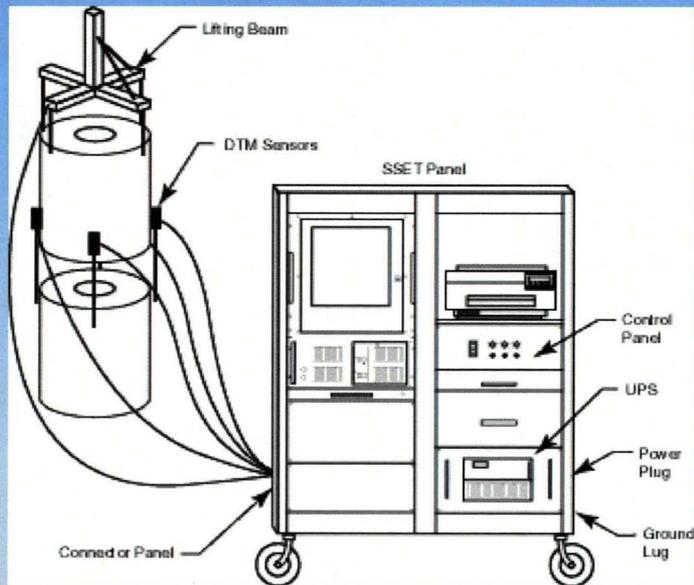
PGHM

Payload Ground Handling Mechanism



SSET

SRM Stacking Enhancement Tool

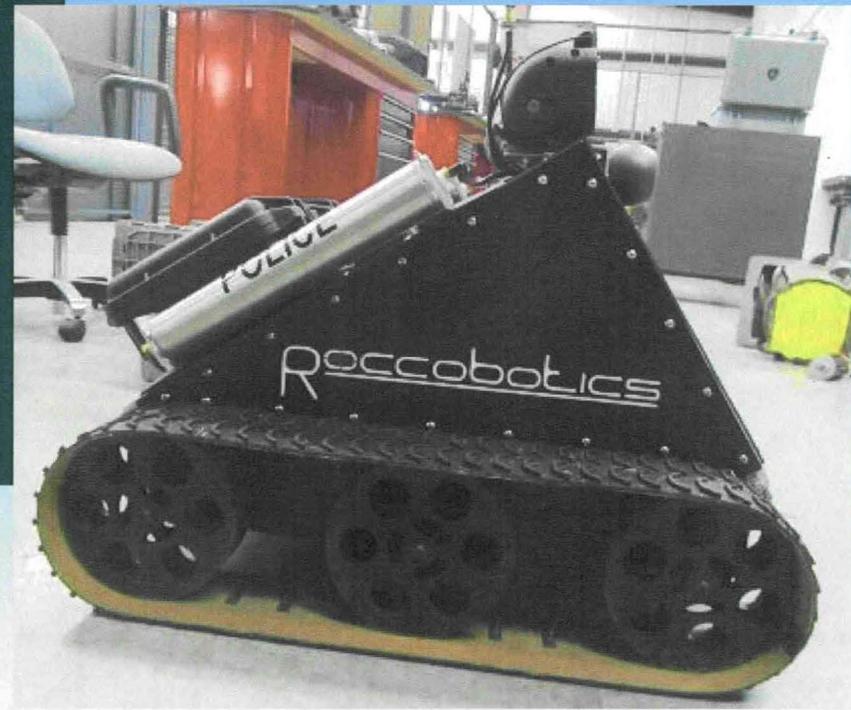
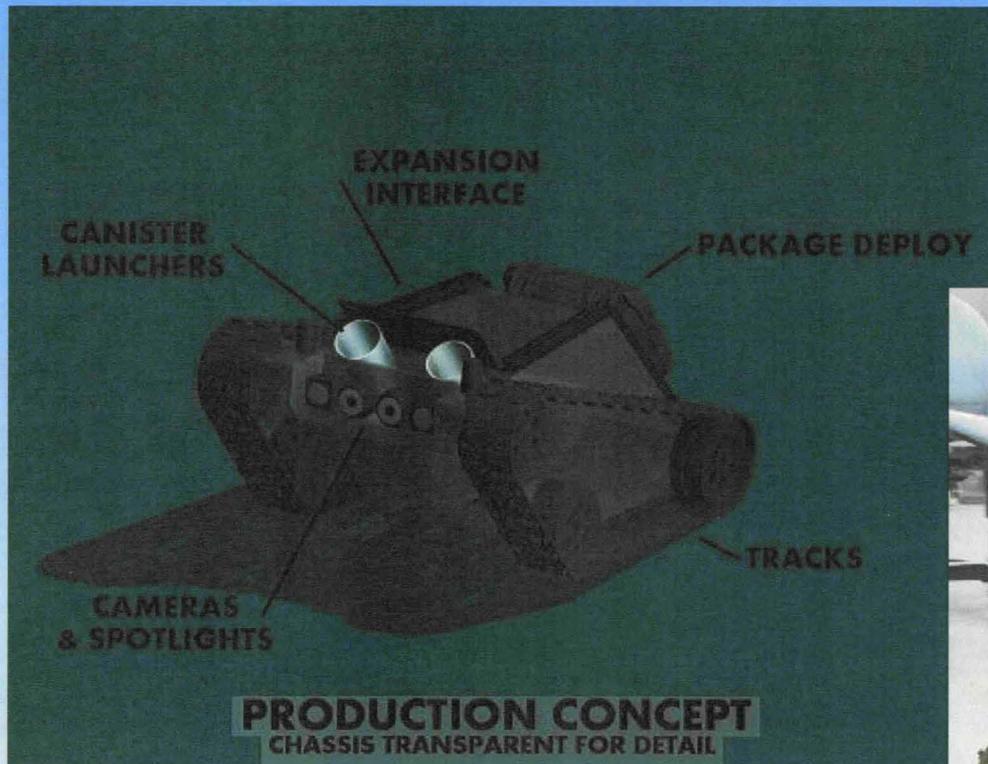


HYPERGOL FUEL DELIVERY



PD Bot

This is an offshoot of a robotics team!



BEST

What is it? What can it do for you?

- A really cool robotics competition!
- A chance to meet a TON of new friends.
- A great way to learn about mechatronics.
- A free look at a possible career.

ENGINEERING AND SCIENCE

Science and technology is where it's at!

- A career that is fun and interesting.
- We are the problem solvers – the innovators.
- Not as scary as you might think because you have help.
- Not as hard as you might think.
- \$\$\$ - yeah that. And the prospects look good.
- You can do it!

The Future

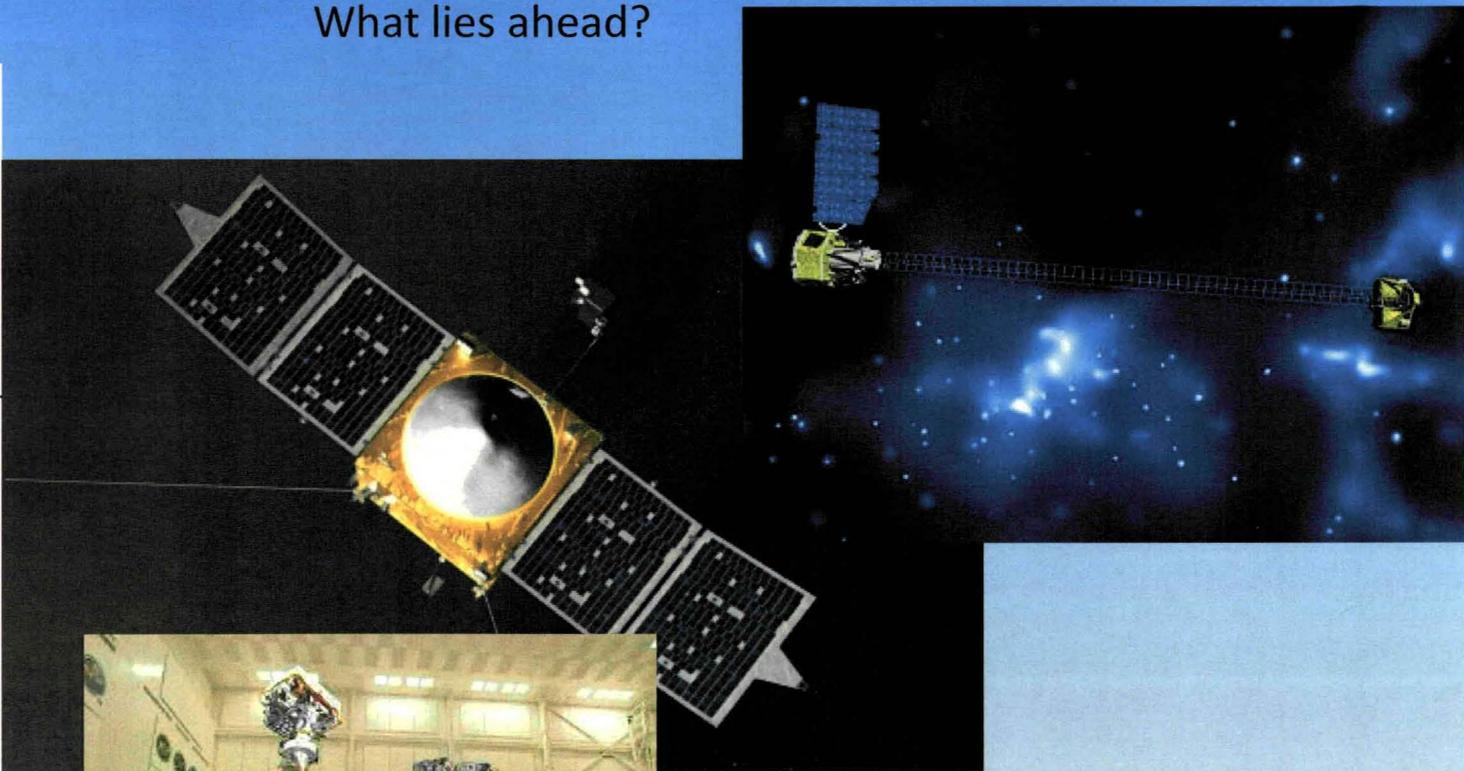
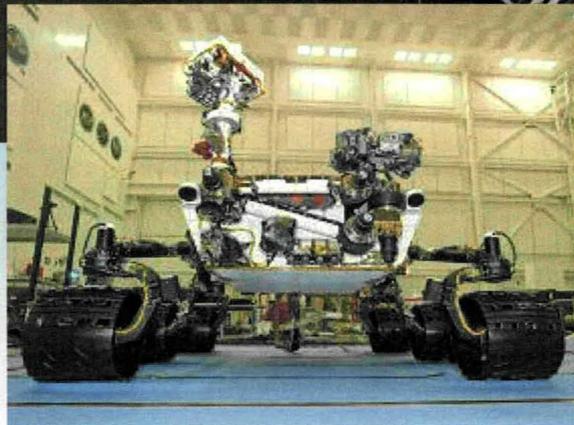
What lies ahead?



Notional



Notional



Q&A

