

# Toolkits Control Motion of Complex Robotics



*Johnson Space Center*

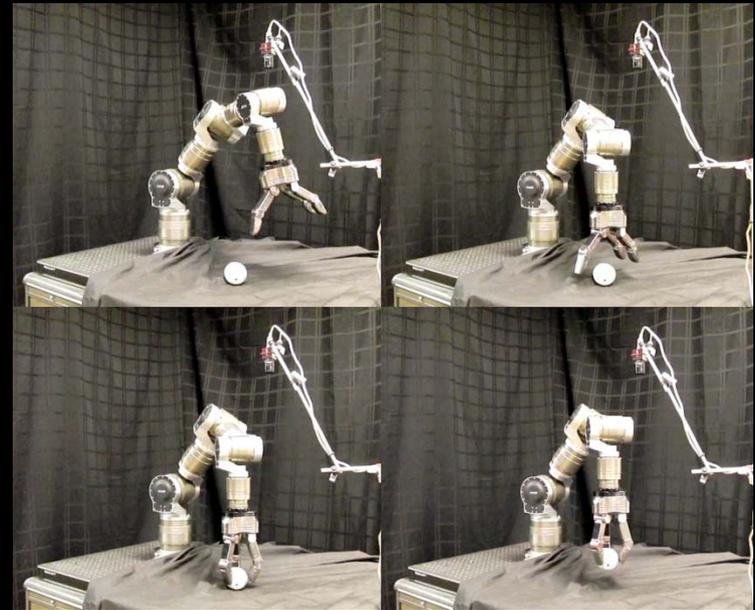
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## Originating Technology/NASA Contribution

- ◆ NASA has often turned to complex robotics to extend human presence deep into space at reduced risk and cost
- ◆ To simplify and enhance the use of its robotic systems, Johnson sought generic control methods that could work across every system

## Partnership

- ◆ Small Business Innovation Partnership (SBIR) funding allowed Energid to build unique robot control and simulation software
- ◆ The SBIR-derived Actin software is now the basis for the company's operations and a solution for a host of robotics applications



## Product Outcome

- ◆ The Actin toolkit provides control capabilities for virtually any kind of robot with any kind/number of joints or degrees of freedom
- ◆ Actin allows for fluid motion while enhancing strength and accuracy of robot manipulators
- ◆ The software also provides powerful simulation capabilities for robot design