Mission

- Universal Robotics is a software company
- Flagship product is Neocortex - *Software with an IQ*
- It is a new form of AI that learns from experience
- Neocortex expands automation into dynamic environments
- Application targets include jobs that are difficult and dangerous
- Universal Robotics is....

...AUTOMATING INTELLIGENCE™
Benefits of Flexible Automation

Improves safety and efficiency across numerous industries including materials handling, warehousing, mining, hazardous waste handling and industrial vehicle automation.
Neocortex - Software with an IQ

- **Self-Learning**
  - New form of Artificial Intelligence allows machines to think and learn for themselves. As it learns, it becomes “smarter”, continuously improving its skill

- **Eliminates common failure in AI**
  - the inability to preprogram all possible variables into the system

- **Hardware Independent**
  - doesn’t require a specific hardware platform
  - will radically expand the use of automation into a wide variety of new hardware applications
Materials Handling Market

- Strong market pull for increased use of automation
  - Poor employee retention, repetitive stress & back injuries, bottlenecks

- Applications for Neocortex
  - Mixed size box handing, bin picking, Automated Forklifts, Mining

- Customers
  - Big Box Retailers, Shippers, Mining Cos.

- Market Size
  - $2.95 Billion
Neocortex Skill - Box Mover

- Adapts to Task
  - When engaged with box
  - Type of box
  - Strategies to move (6 possible x 2)

- Appropriate suite of sensors (>50)
Benefits Metrics

- **IMPROVED EFFICIENCY** 33% or greater
- **COST REDUCTION** $25,000 saving annually per seat
- **RAPID ROI** 18 to 24 months
- **IMPROVED INVENTORY CONTROL** Interfaces directly to WMS
- **USES OFF-THE-SHELF HARDWARE** Operates on standard computers
- **WORKS ON RETROFITTED GEAR** Runs on existing machines
- **OPERATES IN EXISTING FACILITIES** Plant changes not necessary
Market - Strategic Positioning

- Superior value
- Multiple ways to win
- Sell through Hardware Channel Partners
- Engineering Experts
- First mover advantage
- Highly scalable
- Recurrent Revenue
- 18-24 month ROI
Universal Robotics Timeline

- **2001**: NASA research begins, Holding Company Established
- **2004**: US Patent Issued for Robot Intelligence
- **2008**: Commenced Operations at Smith Springs
- **APR 2009**: Historic First: Reactive control of an industrial robot
- **AUG 2009**: US Patent filed for Spatial Vision
- **OCT 2009**: Off-site Alpha testing begins at major retailer
- **JUL 2010**: Spatial Vision Released
- **AUG 2010**: Revenue Stage: contract with General Motors
Summary

- Neocortex is Automating Intelligence
- Learns From Experience
- Provides Flexible Automation
- Hardware Independent
- Value proposition metrics similar to other Automation Solutions
- First mover advantage
- Highly scalable solution

Exhibition Hall: Booth 88/90
Contact: David Peters, CEO
davidpeters@universalrobotics.com
615-366-7281