

Achievements

- **ONLY** Aussie Team
- ONLY Customised
 Robotic Platform
- Top 5 in 28 teams including MIT, UC Berkeley and etc.



One Step Towards Warehouse Automation



Challenges

Objectives & Contributions

Object detection and pose estimation under cluttered shelf environment

amazon Picking Challenge

Solutions



Motion plan and grasp plan for manipulation

Robotic system and gripper design



Object detection system with RGB-D sensor using Kernel Descriptor/Deep Learning



Combined offline and online trajectory planning for accuracy and speed



Vertical movement robotic platform with dual arm and vacuum gripper

