

WEB references 1/18/2015

Article to Read for a general View of Robotics

http://en.wikipedia.org/wiki/Industrial_robot **HW1**

1. Robotics, Types of Robot, Sensors, Actuator Parts and Applications - Simtel Robotics

Basic tutorial about robots. Covers sensors, motors, etc.

http://www.youtube.com/watch?feature=player_detailpage&v=9wYkWJeS3IM

2. Description of ASIMO – his hands and other capabilities

<http://asimo.honda.com/asimo-function/force-sensor/>

3. Video of hand gripping

http://www.youtube.com/watch?feature=player_embedded&v=IKxh5ZNqYY0

4. **PR2 Robot from Willow Garage- a good research platform**

<http://www.willowgarage.com/pages/pr2/overview>

PR2 Robot System Price Including

- Two arms + grippers
 - Omnidirectional mobile base
 - Sensor suite (mono-stereo with texture projector, wide field of view color stereo, 5MP camera, tilting LIDAR, base LIDAR, IMU, pan/tilt platform, forearm cameras, gripper tip sensors)
 - 2 x onboard Xeon servers (each server: 8 cores i7, 24GB RAM, 2TB disk)
 - Power system (onboard chargers, 1.3 kWh battery system)
 - Full system EtherCAT motion control network
 - Full system Gigabit Ethernet network with 32GB backplane switch
 - Dual radio WiFi
 - Wireless Run-Stop system
 - Base station
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\$280,000.00 (with Open-Source Discount) + Taxes and Shipping

5. The forerunner of Baxter PR2 Robot Plays Pool



WillowGaragevideo's channel Tulley Foote

https://www.youtube.com/watch?v=HMx1xW2E4Gg&feature=player_embedded

2014/01/15 Willow Garage Selects Clearpath Robotics to Service and Support the PR2 Robot

http://www.clearpathrobotics.com/press_release/willow-garage-selects-clearpath-to-serve-and-support-the-pr2-robot/

Calibration Video:

<http://www.youtube.com/watch?v=qgr8KVeOZWE>

http://www.engr.colostate.edu/~dga/mech564/handouts/top_10_robotics_mistakes.pdf