מכון טכנולוגי חולון
Holon Institute of Technology

ערכת רובוטית - HAMSTER

Hamster is a small, smart and cheap AUGV (autonomous unmanned ground vehicle).
Hamster by CogniTeam (Outdoor):
https://www.youtube.com/watch?v=OY7TcDUGF8M

חומרה

SW Name	Kit Q-ty	Link
HAMSTER Robot Ver.4	2	http://www.cogniteam.com/hamster4.html

תוכנה

SW Name	ty-Q	Link
Install Ubuntu 14.04.3 LTS	free	http://www.ubuntu.com/download/desktop/install-ubuntu-desktop
Ubuntu install of ROS Indigo	free	http://wiki.ros.org/indigo/Installation/Ubuntu
roscore	free	http://wiki.ros.org/roscore
Hamster Gazebo simulator	free	http://gazebosim.org/
cogniteam-ros-pkg	free	http://wiki.ros.org/cogniteam-ros-pkg

הערה:

- **ROS** (Robot Operating System) provides libraries and tools to help software developers create robot applications. It provides hardware abstraction, device drivers, libraries, visualizes, message-passing, package management, and more. ROS is licensed under an open source, Berkeley Software Distribution (BSD) license.
- **Gazebo** provides implementation the Hamster's 3D STL model and control. Gazebo is able to simulate 10 Robots on an i7 Xeon 3.5 Ghz CPU with 16G RAM and at least 3G Nvidia card, or 2 robots on an i7 laptop with 2G Nvidia card and 8G RAM.

לקריאה נוספת:

- Hamster Developer Manual - REV4
- Hamster Micro AUGV
- Hamster Micro AUGV - SDK
- Cogniteam Company: http://www.cogniteam.com/
- ROS Tutorials: http://wiki.ros.org/ROS/Tutorials
- Gazebo Tutorial: http://gazebosim.org/tutorials