

Microsoft® Robotics Developer Studio 4

A Platform for Developing Robotic Applications

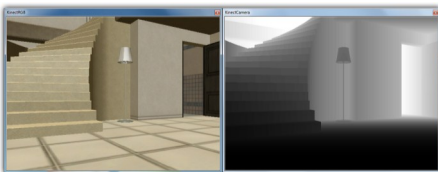
Making Robotics Easier

Microsoft® Robotics Developer Studio 4 (Microsoft RDS) is a Windows®-based environment for academic, hobbyist, and commercial developers to help them easily create robotic applications across a wide variety of hardware.

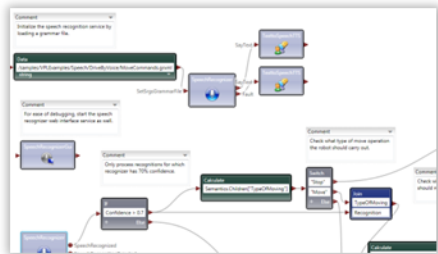
Microsoft RDS includes a lightweight asynchronous services-oriented runtime, a set of visual authoring and simulation tools, as well as templates, tutorials, and sample code to help you get started.

To learn more about Microsoft Robotics Developer Studio 4, visit:

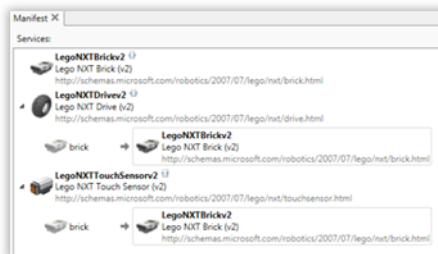
<http://www.microsoft.com/robotics>



Services for Simulating a Kinect™ Sensor



Applications in VPL are easy as connecting blocks



Easy configuration with the DSS Manifest Editor

End-to-end Robotics Development Environment

Microsoft RDS provides a wide range of support to help make it easy to develop robot applications.

- Interact with robots using Windows or Web-based user interfaces. You can remotely monitor and control a robot using HTML and JavaScript across the Web.
- Visual Programming Language (VPL) enables you to program using drag-and-drop.
- Reference Platform design defines a minimum set of components and associated software services that will allow a user to begin using RDS with relatively little effort.
- 3D physics-based Visual Simulation Environment (VSE) allows you to create applications without hardware.
- Use up to four Kinect hardware sensors via the Kinect for Windows SDK.
- Build commercial robots on Microsoft RDS

Now KINECT™ Capable



Sample apartment VSE simulation environment



Kinect Sensor on a Simulated Robot

Updated Visual Development Tools

- Drag-and-drop application development
- C# code generation
- .NET Framework 4, XNA® 4.0 and Visual Studio® 2010 support

Services for Kinect

- Kinect hardware support through Kinect SDK
- Kinect Entity in Simulation
- Depth Image Viewer

Silverlight CCR Services

- Concurrency support in Silverlight® 4.0

Visual Simulation Environment (VSE)

- Floorplan editor & Supports .x, .obj & .dae file formats

CCR and DSS Runtime

- Concurrency / Coordination Runtime and lightweight state-oriented Decentralized Software Services framework

Services for Reference Platform robots

- Simulated Reference Platform
- Implemented by a number of robot manufacturers, including Parallax Inc.'s upcoming "Eddie" robot