Table of Contents

Welcome

Project Willy

- History of Willy

- Project Willy

- Publicity

- Sponsors

Getting started

- Introduction to ROS

- Development Guide

- Driving Willy

- Manual

- Wiki Manual

Build of Willy

- Design history

- Hardware

Architecture

- Software Architecture

- ROS topic design

Raspberry Pi's

- Sensor node

- Social Interaction node

- Power node

Components

- ROS master

- New ROS master on Lubuntu

- Sonar

- Lidar

- Kinect

- Localization and navigation

1. Power node

The power node is the centerpiece of Willy The Robot. It is a laptop with a powerful enough processor and plenty of memory to run the ROS core, autonomous driving algorithms and much, much more.

1.1. Repository

Windesheim-Willy/power_node

1.2. Components

- Motor controller

- Human detection
- Brain
- Joystick
- Lidar
- Ros Master
- Navigation stack