

Table of Contents

1. Common problems.....	2
1.1. Driving.....	2
1.2. Design	2
1.3. Web Interface	3

Welcome

Project Willy

- [Willy](#)
- [Publicity](#)
- [Sponsors](#)

Startup Willy

- [Driving Willy](#)
- [Remote](#)
- [Willy Web](#)

Configuration

- [GIT Setup](#)
- [Ubuntu](#)
- [Remote](#)
- [Wiki](#)

ROS

- [Introduction to ROS](#)
- [Navigation](#)

Technical

- [Development Guide](#)
- [Findings](#)
- [Hardware](#)
- [Known Bugs](#)
- [Parameters](#)
- [Software](#)

Web interface

- [Development Guide](#)
- [SAD](#)
- [RosNodeJs](#)
- [Interaction](#)

Research

- [Hardware](#)
- [Peripherals](#)
- [Sensors](#)
- [Social interaction](#)

- [Software](#)
- [Web interface](#)

Design

- [Background](#)
- [Design Guide](#)
- [Technical](#)
- [Realisation](#)

Status and Advice

- [Status](#)
- [Todo & Advice](#)

Archive

- [\(2016/2\) Initial design](#)
- [\(2017/1\) Base & Functionalities](#)
- [\(2017/2\) Research](#)

1. Common problems

This file contains a list of the most common problems and the problems we found during development.

1.1. Driving

- It is quite hard to deploy and undeploy the brakes.
- When the battery voltage drops below a certain level, Willy will stop driving at irregular intervals. This is probably an internal security system. The brakes are also deployed causing an abrupt stop.
- When driving manually, Willy uses characters pressed on the keyboard to move. When a lot of characters are pressed in a short time, Willy will try to process the complete list of characters, seeming to be uncontrollable.
- Willy has difficulty driving through doors when driving autonomously. This is caused by Willy being quite wide and limitations in the software for autonomous driving.
- The ultrasonic sensors have a lot of blind spots. Since the LIDAR can't scan the back of Willy, the ultrasonic sensors are the only sensors controlling the back of Willy. When Willy is driving backwards, this can cause problems.

1.2. Design

- Because of the width of Willy with garbage bins attached to the side, it is impossible to go through a door without detaching the bins, including the detachable buffers with ultrasonic

sensors in it.

1.3. Web Interface

- There are no known bugs at this moment.



The Web Interface is still in development.