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Welcome

Project Willy

- History of Willy
- Project Willy
- Publicity
- Sponsors

Getting started

- Development Guide
- Driving Willy
- Documentation

Build of Willy

- Design history
- Requirements
- Design reference
- Physical build
- Hardware

Robotic Operating System

- Introduction to ROS
- ROS Tutorials
- Multi master

Architecture

- Software Architecture
- Hardware Architecture
- Skylab Architecture
- ROS topic design

Hardware nodes

- sensor node
- si node
- power node
- WillyWRT

Components

- ROS master
- New ROS master on Lubuntu
- Brain

- Sonar
- Lidar
- Localization and navigation
- Motor controller
- Joystick
- Social interaction
- Speech
- Speech recognition

Skylab

- Setup Skylab
- Python scripts
- Webserver
- Functions of the webserver
- Skylab servers
- ROS installation on Ubuntu VMs in Skylab
- DNS,DHCP, pfSense & Ubuntu

Radeffect App

• Radeffect App

Lessons learned

- Todo & Advice
- Lessons Learned

Archive

- Previous Groups
- Research Archive

1. Group of 2018 Q3 & Q4

1.1. Members

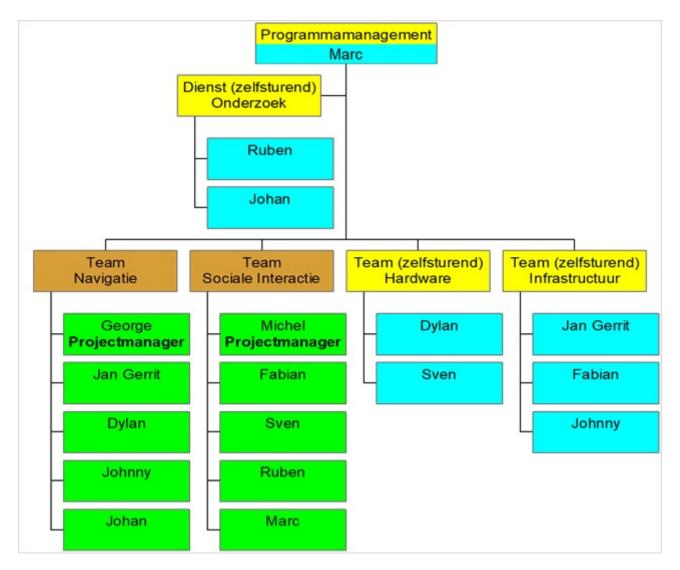
Table 1. Student list of 2018 Q3-Q4

Student	Study Major
Dylan Reimerink	SE
Fabian van de Bor	SE
George Wassink	BIM
Jan Gerrit Elzinga	SE

Student	Study Major
Johan in t Hout	BIM
Johnny Borg	SE
Marc van Walt Meijer	BIM
Michel Stompe	BIM
Ruben Stuut	BIM
Sven Pook	SE

1.2. Main tasks

Our goals for this semester consist of creating an autonomous driving robot on T5 as well as integrating Social Interaction in Willy. We started off with two teams of five, but we came to realise very soon that its not possible to achieve one thing, without the other. Therefore, weve had numerous different virtual teams, for physical hardware, software architecture, hardware architecture and so on.



We've also set some ground rules for transference in the process, as we've learned that many groups before us, including ourselves, struggled at getting the system up and running in the first weeks. Besides the two main goals, and transference, weve also redesigned a lot of functionality.

Weve created a logical and modular design on both hard- and software. If used as described, the following project group can use our rework and fastrack towards their own new project goals.

1.3. Archive

All our documents will be transferred to the new student group through SharePoint. Everything including templates and images for virtual machines and other hardware will be included in the process.

2018 Q3 & Q4 SharePoint archive

2. Group of 2018 Q1 & Q2

2.1. Members

Table 2. Student list of 2018 Q1-Q2

Student	Study Major
Jesse Bouwman	BIM
Vincent van Dijk	IDS
Jonathan ten Hove	SE
Martijn van Olst	ESA
Gerard Zeeman	ESA

2.2. Research archive

2018 Q1 & Q2 SharePoint archive

3. Group of 2017 Q3 & Q4

3.1. Archive

2017 Q3 & Q4 SharePoint archive

4. Group of 2017 Q1 & Q2

4.1. Archive

2017 Q1 & Q2 SharePoint archive

5. Group of 2016 Q3 & Q4

5.1. Archive

2016 Q3 & Q4 SharePoint archive