### **Porthos**

An-embedded-linux-robot

0.0.0-cmake

generated on Sat Nov 19 2016 22:28:03

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## **Porthos**

This project tries to create an embedded linux robot system.

A high-level description of the system is given in the system\_description. Some requirements have been created, but these are still very much open to discussion.

The compiled documentation can be read at http://spoorcc.github.io/porthos/

#### Compiling

mkdir bld
cd bld
cmake ..
make

#### **Generating documentation**

cd bld make doc 2 **Porthos** 

# Licensing

This page describes the licencing for the Porthos system.

### 2.1 Licensing of documentation

Todo determine licensing

### 2.2 Licensing of source code

Todo determine licensing

Licensing

# **System Description**

Describes the robot system on high-level

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# **Testing**

This page describes the testing procedures for the Porthos project.

### 4.1 Unittests

This project uses check for testing the C-code In order to run the tests do the following

```
cd bld
cmake ..
make
make test
```

To have more output for analyzing failing tests use following command instead of make test:

```
ctest --verbose
```

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### **Workflow**

This page describes the workflow for the Porthos project.

#### 5.1 Workflow

This project works following the git-flow branching model. Each feature is developed on a feature branch, branched of of develop. Check out http://nvie.com/posts/a-successful-git-branching-model/ for more info.

The below workflow is based on http://qq.is/tutorial/2011/10/23/git-flow-on-github.  $\leftarrow$  html

### 5.2 Setting up

#### First clone the repository

git clone https://github.com/spoorcc/porthos.git

#### Go into the repo

cd porthos

#### Setup the origin

git remote add upstream git@github.com:spoorcc@porthos

Setup git flow (first install git flow if you haven't got it)

git flow init

And accept all the defaults

### 5.3 Starting on your feature

Create a new branch for your awesome feature

```
git flow feature start <my_great_feature>
```

Push the branch remote.

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```
git flow feature publish <my_great_feature>
```

Commit your changes reguraly locally with descriptive messages.

Also push the changes back up to GitHub.

```
git push origin HEAD
```

#### 5.4 Finish work

Create a pull request in the GitHub interface. In the pull request add usefull info. Click the send pull request to confirm you think you're done.

When your awesome feature is reviewed, sometimes additional changes are needed. Make them locally, commit and push them up to your branch.

Make sure your on your feature branch:

```
git checkout feature/<my_awesome_feature>
```

Do your development, commit and push the changes again. (see Starting on your feature).

#### 5.5 Cleanup

When all your changes are agreed upon and merged by the project, your feature branch will be deleted. Locally you can finish your feature as well.

```
git flow feature finish
```

## **Todo List**

#### **Page Licensing**

determine licensing determine licensing

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- 8.5 /home/ben/Programming/porthos/README.md File Reference
- 8.6 /home/ben/Programming/porthos/src/motion/motion.c File Reference

```
#include <stdio.h>
```

#### **Functions**

• int motion\_init ()

Initializes the motion library.

#### 8.6.1 Function Documentation

```
8.6.1.1 motion_init()

int motion_init ( )
```

Initializes the motion library.

The motion library is initialized and ready to use.

8.7 /home/ben/Programming/porthos/src/motion/motion.h File Reference

```
#include <stdio.h>
```

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#### **Functions**

• int motion\_init ()

Initializes the motion library.

#### 8.7.1 Function Documentation

```
8.7.1.1 motion_init()

int motion_init ( )
```

Initializes the motion library.

The motion library is initialized and ready to use.

### 8.8 /home/ben/Programming/porthos/tst/test\_libmotion.c File Reference

```
#include <check.h>
#include <stdio.h>
#include "motion.h"
```

#### **Functions**

- void test\_init (void)
- Suite \* motion (void)
- int main (int argc, char \*argv[])

#### 8.8.1 Function Documentation

```
8.8.1.1 main()
```

```
int main (
                int argc,
                 char * argv[] )
```

#### 8.8.1.2 motion()

```
Suite* motion ( void )
```

#### 8.8.1.3 test\_init()

```
void test_init (
     void )
```

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