gribot

Specification for an open source agricultural robotics platform

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Chapter 1. Introduction

In the requirement document, we described *what* the gribot platform should do and the goal to reach. The specification document describes how we will do it. This document is much more technical as it contains many subjects such as:

- Analysis

- Calculations and dimensioning

- Technology choices

- etc.

during the preparation of the specification document, it is often necessary to revisit the requirements definition document to clarify a point, and sometimes even to modify an unclear specification, or to add one to clarify the situation.

In this document, specification will be split into two main categories:

Platform specification
: These specification concerns the whole *gribot* platform, such as general architecture, software to use, technology to use, etc. In other word, all elements common to the *gribot* robot family. As an example, the navigation system concerns the whole platform.

Robot specification
: These specification concerns only one robot in the family, performing a specific function. It contains only those elements that are useful for this robot. As an example, the mower cutterbar does not concern the weeding robot.

Chapter 2. Platform specification

The platform specification chapter contains element common to all robot that can be derived from the *gribot* platform. It goes from the propulsion system to navigation, including communication between the various elements.

System architecture

Chapter 3. Mower specification