

# The Robot Swarm Project

October 21, 2016

Documentation

## INTRODUCTION

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## PHYSICAL ROBOT

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### 2.1 Sensors

## CONTROLS

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### 3.1 Low Level

### 3.2 High Level

## COMMUNICATION

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### 4.1 Application

### 4.2 Presentation

### 4.3 Session

### 4.4 Transport

### 4.5 Network

### 4.6 Datalink

### 4.7 Physical

## ABILITIES

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### 5.1 Leader Selection

### 5.2 Clustering

### 5.3 Maneuvers

#### 5.3.1 Following

#### 5.3.2 Obstacle Avoidance

### 5.4 Localization

## INTELLIGENCE

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### 6.1