Alma Mater Studiorum · University of Bologna

Bachelor's Degree in Computer Engineering and Science
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Smart Tank Monitoring System

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Chapter 1

Analysis

This chapter analyses the functional behaviour and hardware structure of the Smart Tank Monitoring System, outlining its operating sequences, safety logic, and implementation requirements. The objective is to define how the system reacts to flight commands and environmental conditions, and how each hardware element contributes to its autonomous operation.

1.1 Description and Requirements

1.2 Summary

Chapter 2

Architecture

Chapter 3

Arduino Workflow

3.1 Overview

3.2 System Dynamics

3.3 Coordination of Operations

3.4 Supporting Tasks and Context Interaction

3.5 Global Workflow

Appendix A

User Interface

Appendix B

User Guide

B.1 Cloning the repository