

## Contents

## 1. Introduction

## Abstract

- 1.1 Objectives
- 1.2 Constraints
- 1.3 System Overview
- 1.3.1 Pneumatics
- 1.3.2 Electronics
- 1.3.3 Sensors
- 1.3.4 Mounting
- 1.3.5 Case
- 1.3.6 Software

The remainder of this report will focus on the software design.

- 2. Approach
- 2.1 Goals
- 2.2 Team Organisation
- 2.3 Development Process
- 2.4 Resources
- 2.5 Cost Calculation

## 3. Design Implementation

- 3.1 Overview
- 3.2 Server Program
- 3.2.1 Safety Mechanisms
- 3.2.2 Sensors
- 3.2.3 Actuators
- 3.2.4 Data Storage and Retrieval
- 3.2.5 Authentication
- 3.2.6 Server API
- 3.3 Image Processing
- 3.4 Client Program
- 3.4.1 Human Computer Interaction
- 3.4.2 Interaction with API

- 4. Results
- 4.1 Results
- 4.2 Conclusion
- 4.3 Recommendations