



# Autonomous Precision Drone Landing on Marked Landing Pads and Solidified Lava Flows

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**Doctor of Philosophy**

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# Contents

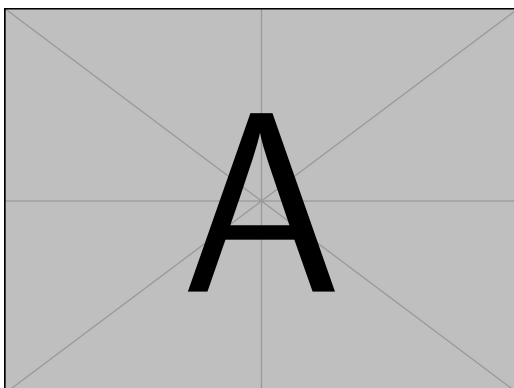
<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Acknowledgements . . . . .	2
1.2	Abstract . . . . .	3
1.3	Abstrakt á Íslensku . . . . .	4
1.4	Overview . . . . .	5
<b>2</b>	<b>Structured Landing Sites with Fiducial Markers</b>	<b>7</b>
2.1	Overview . . . . .	7
2.2	Fiducial System Tests and Modifications . . . . .	7
2.3	First Autonomous Landing Setup . . . . .	7
2.4	Improved Autonomous Landing Setup . . . . .	7
<b>3</b>	<b>Viable Landing Sites in Solidified Lava Flows</b>	<b>9</b>
3.1	Overview . . . . .	9
3.2	RAVEN Fieldwork, Summer 2022 . . . . .	9
3.3	Bolluhraun Fieldwork . . . . .	9
3.4	Viable Landing Site Detection . . . . .	9



# Chapter 1

## Introduction

This is a  $\text{\LaTeX}$ template document.[1]



## 1.1 Acknowledgements

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## 1.2 Abstract

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### 1.3 Abstrakt á Íslensku

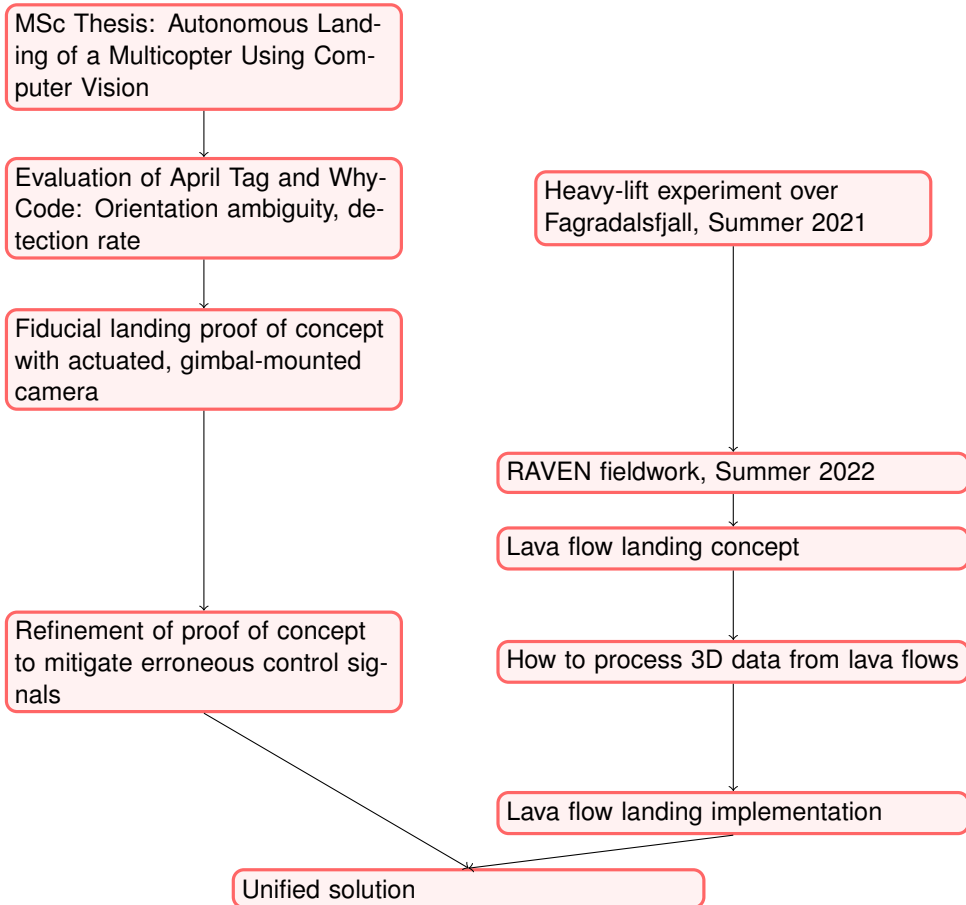
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## 1.4 Overview

This section outlines the overall story of the PhD, which starts in the author's master project, on the topic of autonomous drone landing, in simulation. We discuss the motivations for each step of the research, and the conditions for transitioning between each.





## **Chapter 2**

# **Structured Landing Sites with Fiducial Markers**

### **2.1 Overview**

### **2.2 Fiducial System Tests and Modifications**

### **2.3 First Autonomous Landing Setup**

### **2.4 Improved Autonomous Landing Setup**



## **Chapter 3**

# **Viable Landing Sites in Solidified Lava Flows**

### **3.1 Overview**

### **3.2 RAVEN Fieldwork, Summer 2022**

### **3.3 Bolluhraun Fieldwork**

### **3.4 Viable Landing Site Detection**



# Bibliography

[1] I.P. Freely. A small paper. *The journal of small papers*, -1, 1997. to appear.