



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

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**Doctor of Philosophy**

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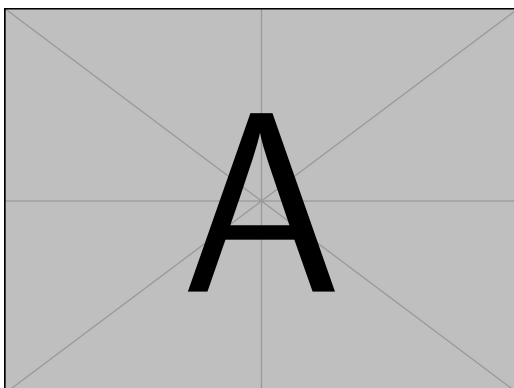
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# Chapter 1

## 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

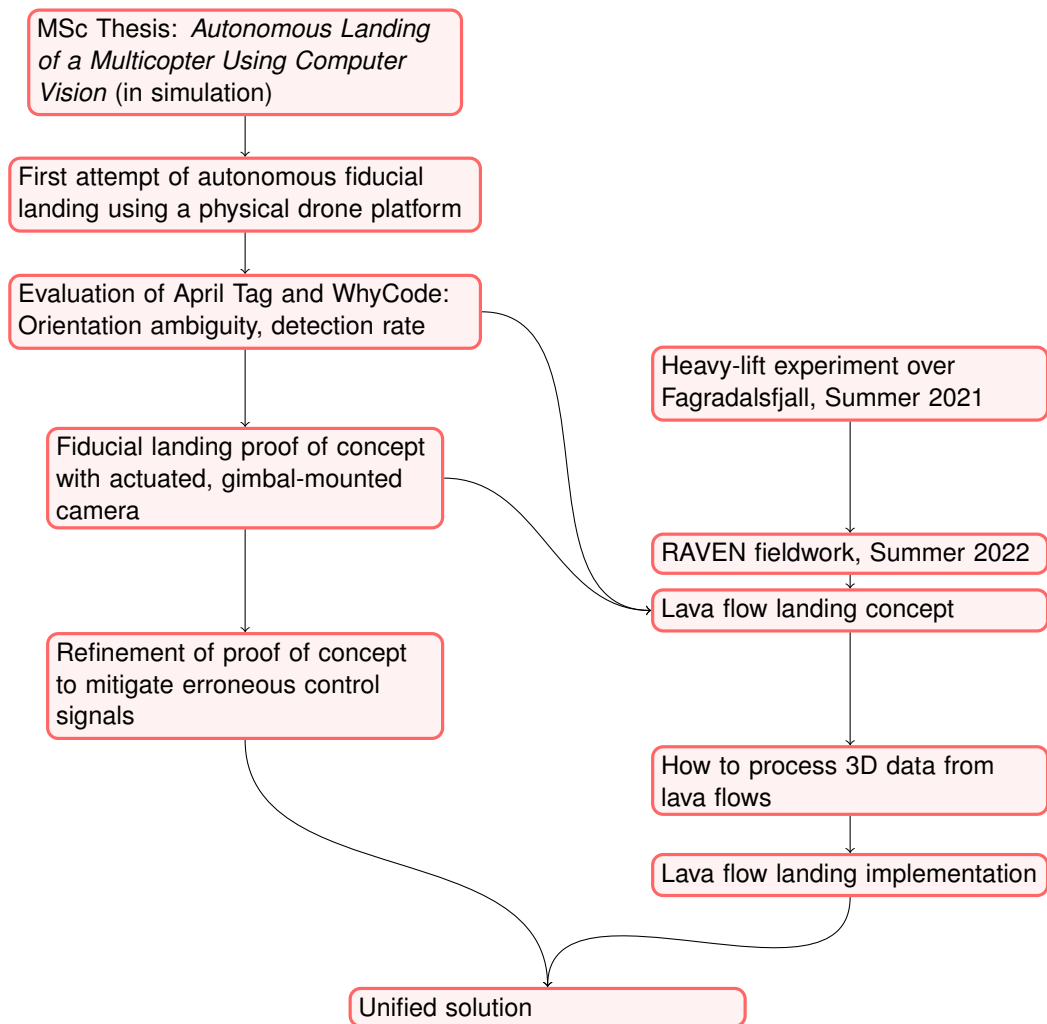
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## 1.4 Overview

This section outlines the overall story of the PhD, which originates with the author's master project. 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 First Autonomous Landing Attempt**

### **2.3 Fiducial System Tests and Modifications**

### **2.4 Second Autonomous Landing Setup**

### **2.5 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.