

---

# Fast Computer Vision based Geometry Estimation

## Bachelor Thesis

---

**Authors**

Cédric Renda, Manuel Tischhauser

**Supervisor**

Prof. Dr. Guido M. Schuster

**Subject**

Image Processing

HSR Hochschule Für Technik Rapperswil

March 27, 2020



# **Abstract**

## **Introduction**

## **Approach**

## **Conclusion**

---

# Contents

<b>Abbreviations</b>	<b>1</b>
<b>1 Introduction</b>	<b>3</b>
<b>2 Theory</b>	<b>5</b>
<b>3 Evaluation</b>	<b>7</b>
<b>4 Development</b>	<b>9</b>
<b>5 Results</b>	<b>11</b>
<b>6 Conclusion</b>	<b>13</b>
<b>References</b>	<b>15</b>
<b>List of figures</b>	<b>15</b>
<b>List of tables</b>	<b>17</b>
<b>Statement of Plagiarisms</b>	<b>19</b>
<b>A Requirements</b>	<b>23</b>
A.1 Assignment . . . . .	23
A.2 Requirement Specification . . . . .	24

---

# Abbreviations

**ASK** Amplitude Shift Keying





# **Chapter 1**

## **Introduction**

---

# **Chapter 2**

## **Theory**

This chapter takes a closer look at the theory and technology applied in this thesis.

---

# **Chapter 3**

## **Evaluation**

---

# **Chapter 4**

## **Development**

This chapter covers the developing process in more detail.

---



# **Chapter 5**

## **Results**

This chapter covers the most important results.

---

## **Chapter 6**

## **Conclusion**

---

# References

---

---

## List of Figures

---



---

## List of Tables

---

# Statement of Plagiarism

We declare that, apart from properly referenced quotations, this report is our own work and contains no plagiarism; it has not been submitted previously for any other assessed unit on this or other degree courses.

<b>Place</b>	<b>Date</b>
Rapperswil	March 27, 2020

## Signatures

Cedric Renda

Manuel Tischhauser

---

# **Appendix A**

## **Requirements**

### **A.1 Assignment**

---

## **A.2 Requirement Specification**



---