

LUCERNE UNIVERSITY OF
APPLIED SCIENCES AND ARTS

ARIS - Localization of a Sounding Rocket via GPS

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Declaration

I hereby declare and confirm that this thesis is entirely the result of my own original work. Where other sources of information have been used, they have been indicated as such and properly acknowledged. I further declare that this or similar work has not been submitted for credit elsewhere.

Horw March 8, 2018

Simon Herzog

Abstract

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Chapter 1

Introduction

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Chapter 2

GPS concept and error sources

Chapter 3

Accuracy enhancement systems

Chapter 4

Differential GPS concept for a sounding rocket

Chapter 5

Implementation

Chapter 6

Testing and validation

Chapter 7

Conclusion

Bibliography

- [1] P. Misra and P. Enge, *Global Positioning System: Signals, Measurements, and Performance*. Ganga-Jamuna Press, 2011.

Appendices