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Department of Intelligent Mechatronics Engineering

Department of Convergence Engineering for
Intelligent Drone

The Graduate School

Sejong University

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A thesis submitted to the Faculty of the Sejong University in
partial fulfillment of the requirements for the dual degree of
Master in Intelligent Mechatronics Engineering and Master in
Convergence Engineering for Intelligent Drone

February 2021

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Jin Woo Song, Advisor

“Your quotation.”

...

Abstract

Your abstract...

Keywords: Your keyword,...

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List of Acronyms

i.e.	In Other Words
e.g.	For Example
etc.	Et Cetera

Chapter 1

Introduction

1.1 Section 1

Your section content...

You can start your citation here, for example, "in the book [1]

1.1.1 Sub-section 1

Your sub-section content...

Example of one figure in one line (Fig. 1.1)

Example of two figures in one line (Fig. 1.2)

Example of Table 1.1

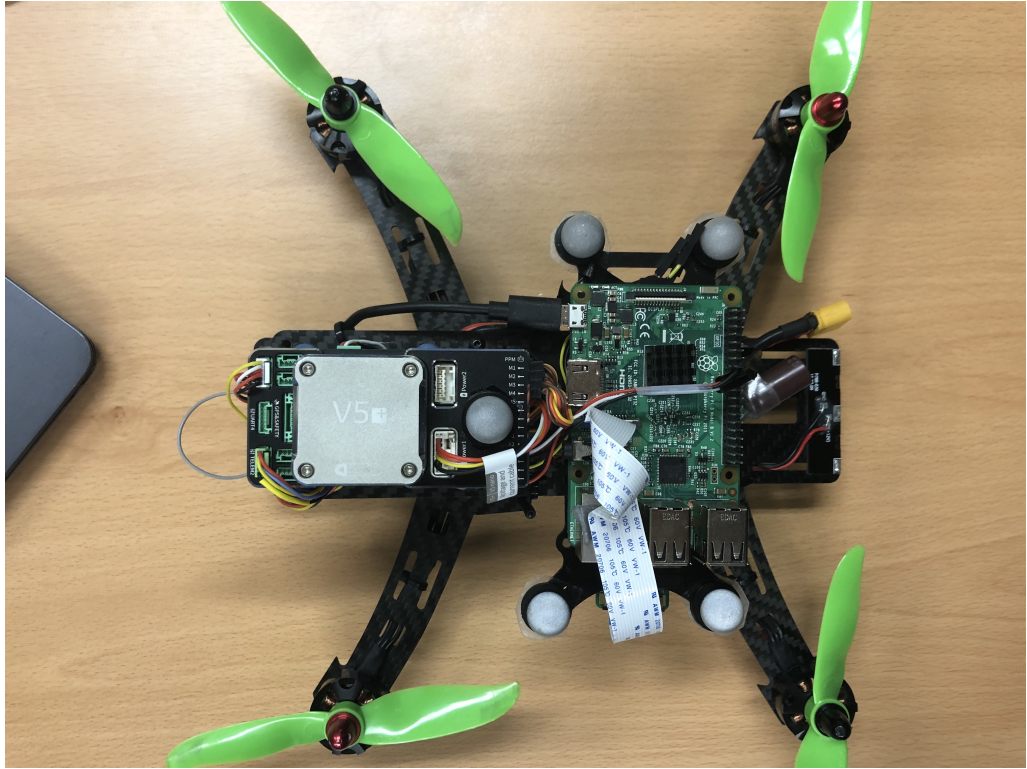


FIGURE 1.1: caption

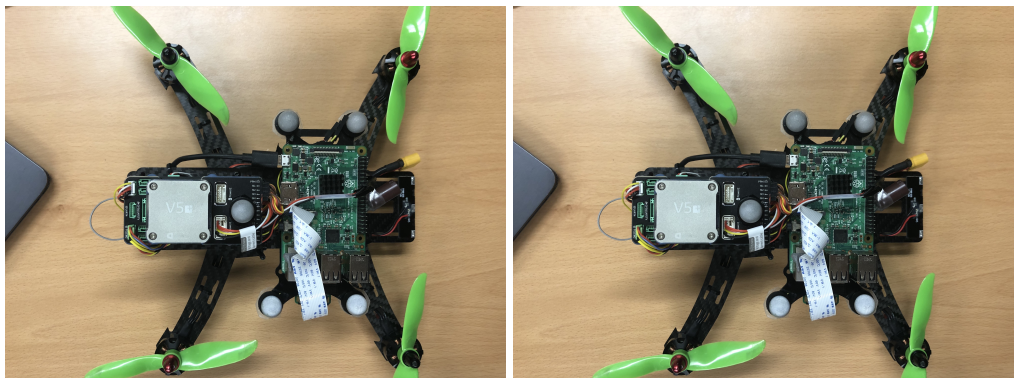


FIGURE 1.2: caption

1.1. Section 1

	Measurement	Drawbacks
IMU	Linear Accelerations, Angular velocities.	Biased and noisy measurements, Large uncertain for slow motions.
GNSS	Absolute position (outdoor).	Unreliable in indoor and urban environments.
Magnetic Sensor	Earth's magnetic field direction.	Disturbed by electronic devices nearby.
Barometric	Absolute altitude.	Not reliable indoor, Affected by weather conditions.
Camera	Inertial measurement, Visual information.	Ambiguity, calibration, Affected by light conditions.
Laser	Distance to objects	Heavy and expensive, 2D information.

TABLE 1.1: Properties of some sensors that are commonly used for estimation task in the literature.

Bibliography

- [1] D. Titterton, J. L. Weston, and J. Weston, *Strapdown inertial navigation technology*. IET, 2004, vol. 17.

국문초록

다양한 이동 측정치를 활용한 다중 상태 제약 칼만필터
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Acknowledgement

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