

Development & Construction of an Autonomous Path-Following Drone

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1 Introduction

do at the end of the writing process

2 Personal Motivation

rather short

3 Literature Review

3.1 general software considerations

why I choose the software (work around the same topic that already exists)

4 Methodology

(only what has been done + which parts are needed and why I choose them)

4.1 parts

- **Kakute H7**, comes with betafight

4.2 soldering

4.3 ardupilot

4.3.1 Ground Station

ground station = software running on ground-based computer, transmit data to the UAV and can control it

- **Mission Planner** widely used and has a wiki(Open Source)

- **Mavproxy**, for Linux used for code developers, written in Python(Open Source)
- some considerations for Smartphone (might be useful for connection between Rapi and ground)

downloading of latest stable Ardupilot firmware for Kakute H7 fc

5 Results

6 Discussion and Outlook

7 Conclusion

8 References

9 Table of Figures

(short table on which every figure description with the page number is listed)