



KTH MECHATRONICS ADVANCED COURSE

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FINAL REPORT

ESS-NW/ESS-CAR

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Abstract

Abstract starts here, what should be included:

- The problem issue subject being addressed

- How the problem is tackled

- Overview of the results, and indication as to what level they solve the problem.

- Implications of the results

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1 Introduction

This report presents the process and results of two projects "Embedded Service for Self-adaptive Network" (ESS-NW) and "Embedded Service for Self-adaptive Car" (ESS-CAR). This chapter describes the background of the two projects, then give a description of the projects' goals and motivation. Following this a short discussion of the delimitations we faced during the process of the project. A report disposition is presented in the end of this chapter.

1.1 Background

1.1.1 Background subsection blabla

1.2 Project Description

1.2.1 Project Description sub blabla

1.3 Delimitations

1.4 Readers guide / Report disposition

2 Literature Review and State of the Art

3 Methodology

- 3.1 Engineering approaches ?
- 3.2 Tool-chains ?
- 3.3 Project management

4 Implementation

4.1 System overview

maybe put communication diagram here

4.2 Communication between Beaglebones

4.3 Communication between Beaglebone and Arduino

4.4 Implementing the OS

4.5 Implementing Arduinos

4.6 Sensors

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4.6.2 Reflective object sensor

4.6.3 Camera

4.7 Controlling actuators

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4.7.2 Motor ESC

5 Verification and Validation

6 Results

7 Discussion and Conclusion

8 Future Work