AU-Herning: EPRO 4 Renewable Energy System

Project - Energy Hub

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Executive summary

Preface

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Part I Analysis

Introduction

Problem statement

Part II Realisation

Hardware design

- 1 Introduction
- 2 Interface
- 3 Power line and switch mode
- 4 Power switch
- 5 Results

Software design

- 1 Introduction
- 2 Device drivers
- 3 Kernel setup
- 4 Das U-Boot
- 5 Results

Web design

- 1 Introduction
- 2 Server setup
- 3 Database
- 4 File structure
- 5 Results

Digital design

- 1 Introduction
- 2 LPC2478 to spartan 6 interface
- 2.1 External memory controller
- 2.2 Bus functional module
- 2.3 Wishbone
- 3 Module design
- 3.1 Design
- 3.2 Indicator
- 3.3 Interrupt register
- 3.4 Interface
- 4 Results

Part III Recapitulation

Conclusion

Discussion

Process evaluation

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Part IV Appendix

Appendix A

one

Appendix B

 \mathbf{two}