University of Peradeniya

Department of Computer Engineering

CO421 : Final Year Project I

Smart Parking Sensor Network

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Abstract

Contents

List of Figures

List of Tables

1 Introduction

Broader context of the work you are doing and its theoretical and/or practical importance.

Define your problem clearly and motivations for exploring it.

Guide to the contents of chapters.

1.1 Scope and Objectives

What you had hoped to achieve and an honest appraisal of how far you got. State the limitations of your particular approach.

2 Background

Precise explanation of concepts and definitions for all technical jargon used.

2.1 Related work

Categorise existing approaches to the problem in literature. Compare and contrast these approaches to yours. Don't just quote paper abstracts!

Split into thematic subsections if necessary.

3 Design

Major components in your system, and their interactions. Diagrams illustrating data or control flow may be useful. Have a description for all diagrams and explain any non-standard notation!

High-level descriptions of algorithms, data schemata, protocols and hardware schematics.

3.1 Rationale

What specific requirements drove your design choices? Did you explore alternatives?

4 Implementation

Details of data structures, file and protocol packet formats. Explain implementation-level challenges, optimisations etc.

Choice of support tools such as the IDE used is unimportant!

Limit screenshots to describing important workflows in the system.

4.1 Verification

Tests and/or formal techniques that were used to verify correct operation of the system.

5 Evaluation

What is it that are you trying to show/prove about the system developed?

Describe how exactly you set up the experiments and took measurements.

5.1 Results and interpretation

Present data in tables and graphs. Label graph axes with appropriate units and scale them so they are legible in print!

State possible reasons for any differences between outcome expected vs. trends in actual data.

6 Conclusion

Summarise work done, highlighting key results and limitations of the work.

Technical challenges encountered and how they were solved within the context the problem.

6.1 Future work

Improvements possible with the benefit of hindsight. Extensions to your solution or alternative explorations of the problem.