

Pre-planning Intersection Traversal for Autonomous Vehicles

Master's Thesis in Computer Engineering

Ian Dahl Oliver

Department of Electrical and Computer Engineering
Aarhus University
Aarhus, Denmark

ian.oliver@post.au.dk

27-01-2025



Supervisor: Lukas Esterle

lukas.esterle@ece.au.dk



Preface

This master thesis is titled “Pre-planning Intersection Traversal for Autonomous Vehicles” and is devised by Ian Dahl Oliver. The author is a student at Aarhus University, Department of Electrical and Computer Engineering, enrolled in the Computer Engineering Master’s programme. The author has completed a Bachelor’s degree in Computer Engineering under the same conditions.

The thesis has been conducted in the period from 27-01-2025 to 05-06-2024, and supervised by Associate Professor Lukas Esterle. I would like to express my gratitude to my supervisor for his support and advice throughout the project.

An additional thanks goes to...

All software developed in this thesis is released under the MIT license, and is provided as is without any warranty.

Enjoy reading,
Ian Dahl Oliver

Abstract

Nomenclature

Some terminology and type setting used in this thesis may not be familiar to the reader, and are explained here for clarity.

Hello > World

Acronyms Index

Contents

Preface	ii
Abstract	iii
Nomenclature	iv
Acronyms Index	v
1 Introduction	1
1.1 Motivation	1
1.2 Problem Definition	1
2 Related Works	2
3 Background	3
3.1 section 1	3
4 Methodology	4
4.1 Section 1	4
5 Results	5
6 Discussion	6
7 Conclusion	7
References	8
Appendix	vi

Introduction

The introduction to the thesis will be structured as follows...

1.1 Motivation

1.2 Problem Definition

Related Works

Background

This section outlines the theory relevant to the thesis. It begins with...

3.1 section 1

Methodology

This section covers the methodology and work produced as part of the thesis...

4.1 Section 1

Results

This section details the experiments conducted

Discussion

In this section...

Conclusion

References

Appendix

A: Appendix 1	vii
---------------	-----

A: Appendix 1