SIMULATION & IMPLEMENTATION TOOLS

This Project is Firstly Designed and verified using "TTool" then implemented using simple "Editor"

Build & Compiled → Native MinGW Tool-Chain

Debugger → Native GDB Debugger

BY

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PROJECT NAME

OBJECT DETECTION

An embedded system object detection project involves designing and implementing a system that can detect objects in-front and stop vehicle accordingly.

SYSTEMARCHIT ECTURE



CASE STUDY

System detects the distance between the vehicle and objects in front of it. Then decides whether to stop or to continue according to compare with the threshold value.

Assuming power, sensors and actuators never fail.



METHODOLOGY

Water-fall Model for 2 reasons

- 1. I am both Customer and Developer, that's grantee there is not any misunderstanding between the end-user and the developer.
- 2. The Water-fall Model suffers from teams' dependency and blocking; However, I am working alone and that means whatever Model I choose there will be blocking anyway.

 SPACE-EXPLORATION/ PARTITIONING

We will use Native Host Target x86 Processor for this project.

SYSTEM ANALYSIS

The system analysis Diagrams are identified in the following pages.

SYSTEM DESIGN

The system Design Diagrams are identified in the following pages.

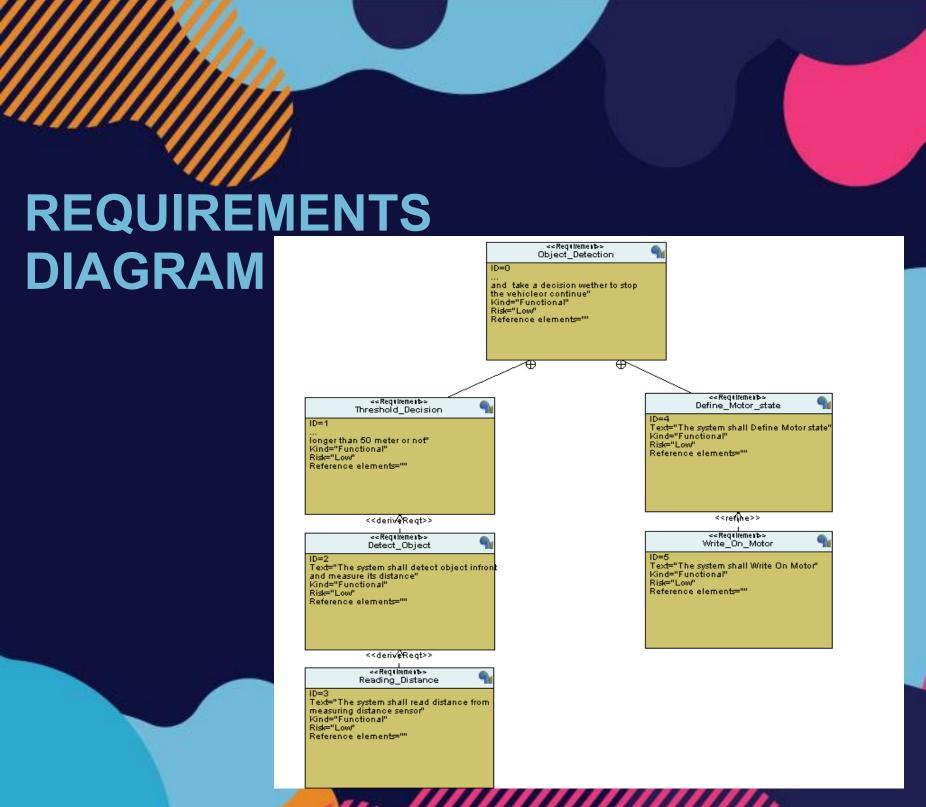
"Learn in depth and you will be deeply happy."

- Omar Ahmed -



REQUIREMENTS

The Requirements Diagram is identified next page.



SYSTEM ANALYSIS

USE CASE DIAGRAM

