

**RESLA**

Project plan

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Information and Communication Technology

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<Version 0.01>

REVISION HISTORY

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| --- | --- | --- | --- |
| **Version** | **Date** | **Summary of changes** | **Author** |
| 0.01 | 13.03.2022 | Had a rough overview of the template. Added some ideas. | T. Pasanen |
| 0.02 | 16.03.2022 | Had a look over the plan | T. Pasanen |
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# 1. INTRODUCTION

# 1.1 Background

What is a purpose of this project? Why does it exist?

Project parties, their contact addresses

Completing a learning assignment. Combining our ongoing courses knowledge into one project, namely an RC car. Learning to work as a team and integrating our strengths and overcoming our weaknesses, as a team.

# 1.2 Scope

Result of the project, e.g. application with the documentation. Result may also consist of the preliminary study documents of Requirement specification documents… What is your project going to do?

In the end we will hopefully have a car that does not cause any unnecessary deaths, instead bettering humanity by proving that we can be a driving force in engineering projects.

# 1.3 Main functions

Essential partial tasks of the project, e.g. Planning and creating database, producing XML interface…

Controlling the car through a website interface. Raspberry Pi acting as the brains, controlling the servo motors, being a web server, and handling data between the car and the website.

# 1.4 Boundaries

What parts/things/sections etc. does not consist to the project, e.g. user training.

No weapons of mass destruction, keep it simple.

# 1.5 Preliminary schedule

Also the main part of tasks should have deadlines.

# 1.6 Quality objectives

Essential quality aims for both product and process. Not too many but more than one.

E.g.

Goal: Not work amount overrun

Indicator: Work amount progress

No crunching, not spending excessive amounts of time on trivial issues.

# 2. PROJECT OBJECTIVES

# 2.1 Project outputs

Content of the packet supplied. What are you going to give to your customer in the closing phase.

A beautiful RC car, that works. Well.

# 2.2 Special requirements

e.g. critical security issues, performance…

Speed limiter, safety sensors.

# 2.3 Requirement assurance

How to be sure that special requirement will be met.

Intricate testing on every aspect

# 3. OVERALL APPROACH

Specifications, plans etc. As a starting point. Did you receive any from your customer in starting phase. List them here; version, date etc. and attach them.

We received a regular RC car, a raspberry pi and free hands to make it work.

General outline is that the RC car will be controlled through a website, which runs on a server in the raspberry pi and sends data to and from the pi. Web server, rc car, sensors, front-end, raspberry pi, database.

# 4. MAJOR FUNCTIONS AND WORK AMOUNT ESTIMATES

# 4.1 Major functions

Detailed list of all the task in project.

Website

* HTML/CSS
* - Javascript
* - Display data
* - Controls

Web server

* Nginx
* - MongoDB
* - Host the website
* - Take input from website
* - Send data to website

Raspberry Pi

* Controls car (motor, steering)
* Run web server
* Parse and manipulate data
* Send data to database
* Get commands from web server
* Get data from sensors

Car

* Takes input from raspberry pi to move
* Houses sensors, provides them with data
* Doesn’t explode

# 4.2 Work amount estimates

Work amounts of each tasks above.

# 5. PROJECT RECOURSES

# 5.1 People

Project organization with responsibilities and authorities. Give also the contact information.

# 5.2 Facilities and special resources

Physical recourses, like working area, tools, devices. Also the licence holders should be listed.

IoT laboratory and it’s resources

Public spaces for testing

# 6. MANAGEMENT

# 6.1 Time schedule and use of resources

Graphical description about the project schedule, tasks and persons (e.g. Gant diagram)

# 6.2 Reporting

Internal and external reporting; Between whom, using which channels, how often….

Whatsapp for main communication

Teams for sharing files and occasional communication

In-person meetings between group members

Writing notes of meetings and discussions

# 6.3 Project meetings

How often, who writes the memo, what is an agenda, who is a chairman.

Juhani is in charge. Workload is evenly distributed.

# 6.4 Control meetings

See 6.3.

# 6.5 Risk management

Risk analysis will be located as an attachment of this project plan. In this paragraph you should describe how often your team will analyze risks (usually during each project meeting).

What do you do with the risks? Answer: Determine the probability and effect of each risks and develop strategy to mitigate the risks.

Focusing on peripherals could turn out to be unfruitful time sinks.

7. DOCUMENTATION

# 7.1 Project archives

Where are the project folders and who’s got an access. Structure of a project folders.

There might be some rules for file naming and versioning. If yes, determine then in here.

Teams

Code will be hosted on something like GitHub and stored locally between members

8. ATTACHMENTS

e.g. Risk analysis