



Hochschule
Bonn-Rhein-Sieg
University of Applied Sciences



R&D Project Proposal

Project Proposal Title

Salvin George

Supervised by

First Supervisor

Second Supervisor

Third Supervisor

Month 20XX

1 Introduction

1.1 Topic of This R&D Project

- Radiation source is said to be really dangerous for human health, and therefore, it is important to detect the radiation source and take necessary actions to avoid the exposure.
- The project aims to develop a system that can detect the radiation source and provide the necessary information to the user.
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1.2 Relevance of This R&D Project

- Who will benefit from the results of this R&D project?
- What are the benefits? Quantify the benefits with concrete numbers.

2 Related Work

2.1 Survey of Related Work

- What have other people done to solve the problem?
- You should reference and briefly discuss at least the “top twelve” related works

2.2 Limitation and Deficits in the State of the Art

- List the deficits that you have discovered in the related work and explain them such that a person who is not deep into the technical details can still understand them. For each deficit, provide at least two references
- You should reference and briefly discuss at least the “top twelve” related works

3 Problem Statement

- Which of the deficits are you going to solve?
- What is your intended approach?
- How will you compare your approach with existing approaches?

4 Project Plan

4.1 Work Packages

Planning is the replacement of randomness by error. (Einstein). Very much like you would never start a longer journey without a detailed travel plan, you should not start a project without a carefully thought out work plan. A work package is a logical decomposition of a larger piece of work into smaller parts following a “divide and conquer” strategy. It is very specific to the problem that you are going to address. Refrain from a rather generic decomposition. If your work plan looks similar to those of your school mates, which may address completely different problems then you have not thought carefully enough about how you approach the problem. It is ok to have two generic work packages *Literature Study* and *Project Report*. Discuss your work packages in the ASW seminar.

The bare minimum will include the following packages:

WP1 Literature Study

WP2 Method Selection

WP3 Simulation Framework

WP4 Implementation and Experimentation

WP_y Evaluation and Comparison of the implemented approaches

WP_z Project Report

4.2 Milestones

Milestones mark the completion of a certain activity or at least a major achievement in an activity. Milestones are also decision points, where you reflect on what you have achieved and what options you have for continuing your work in case you have not achieved what was planned. Above all, milestones have to be measurable. As above, if your milestones are the same as those of your school mates, then you may not have thought carefully enough about how your project shall progress.

The following milestone are considered to achieve a planned and strategic approach towards the completion of the project:

M1 Completing literature survey

M2 Selecting the approaches to be followed

M3 Completing the implementation of simulation framework

M4 Completing the implementation of the selection methods

M5 Evaluation of the methods

M6 Final Submission

4.3 Project Schedule

Include a Gantt chart here. It doesn't have to be detailed, but it should include the milestones you mentioned above. Make sure to include the writing of your report throughout the whole project, not just at the end.

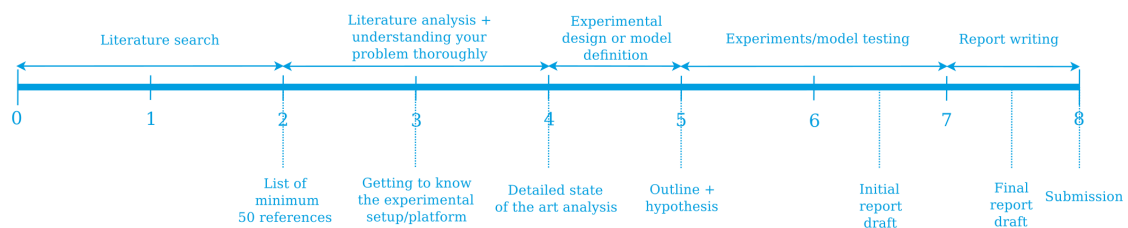


Figure 1: My figure caption

4.4 Deliverables

Minimum Viable

- Project results required to get a satisfying or sufficient grade.

Expected

- Project results required to get a good grade.

Desired

- Project results required to get an excellent grade.

Please note that the final grade will not only depend on the results obtained in your work, but also on how you present the results.

References

- [1] Author Name. Book title. *Lecture Notes in Autonomous System*, 1001:900–921, 2003. ISSN 0302-2345.