

Master's Thesis (Masterarbeit) Proposal

A Novel Architecture to Measure the Resonance Frequency of Copper Pipes

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Master's Thesis in Computer Science
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This template is for use with pdf_lat_ex and biber. It has been tested with TeX Live 2022 (as of June 8, 2022).

1 Introduction & Motivation

A description of the task to be completed and the reasons behind working on the thesis. Start with a general intro to the broad topic and proceed towards the specific problem you want to solve in your thesis. Make sure you give pointers to the literature you used for preparing the proposal. This section should end with a formulation of a still-open research problem.

Citations can be used like this: The XYZ system [1] shows that...; or Akyildiz et al. [1] showed in their work that...

2 Objectives and Methodology

A clear formulation of the objectives and a description of the work necessary to reach the goal. Start where you ended the previous section (i.e., the still open problem) and describe that and how you are going to solve this problem. Describe not only the goals (e.g., *design of an algorithm to solve XYZ*) but also how you are going to evaluate your solution in the end. This should include ideas on the methodology, validation, scenarios, and metrics already, however, do not go into too much detail. The ideas described here, can, of course, be changed later during the actual thesis. Since you describe the steps you will be doing during your thesis, you can use *I* (e.g., *I will create XYZ*).

3 Preliminary Outline

Adjust this outline to your thesis and the foreseen topics that it will cover. Stick to chapters, sections, and sub-sections only.

| | |
|-------------------|---|
| Chapter 1 | * |
| Section 1.1 | * |
| Section 1.2 | * |
| Chapter 2 | * |
| Section 2.1 | * |
| Section 2.2 | * |
| Chapter 3 | * |

4 Work Plan

Adjust this plan to your thesis incorporating the individual steps as well as the individual timeline of your thesis.

The Gantt chart in Figure 1 provides a rough estimate of the schedule for the realization of this thesis.

Please familiarize yourself with correct citation rules and our BibDB reference management system.

Bibliography

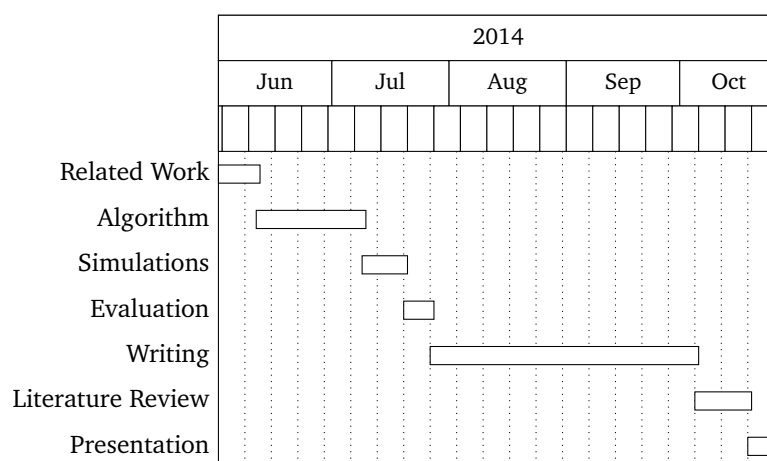


Figure 1 – Preliminary Timetable

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- [1] I. F. Akyildiz, W. Su, Y. Sankarasubramaniam, and E. Cayirci, “A Survey on Sensor Networks,” *IEEE Communications Magazine*, vol. 40, no. 8, pp. 102–114, Aug. 2002. DOI: 10.1109/MCOM.2002.1024422.

Todo list

- ☐ This template is for use with `pdflatex` and `biber`. It has been tested with TeX Live 2022 (as of June 8, 2022). 1
- ☐ Adjust this outline to your thesis and the foreseen topics that it will cover. Stick to chapters, sections, and sub-sections only. 2
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- ☐ Please familiarize yourself with correct citation rules and our BibDB reference management system. 2