Some Title

Some subtitble

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Computer Science, xXx

Semester Project

Composed and typeset by the authors using the LaTeX Document Preparation System, based on the AAU report template by Petersen [1].

Electronics and IT
Aalborg University
http://www.aau.dk

AALBORG UNIVERSITY
STUDENT REPORT

Title:
Project Title

Theme:
Scientific Theme

Project Period:
Fall Semester 2022

Project Group:
xXx

Participant(s):
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Supervisor 1
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Copies: 1

Page Numbers: 9

Date of Completion:
August 17, 2022

Abstract:
This is the abstract.

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Aalborg Universitet
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AALBORG UNIVERSITET
STUDENTERRAPPORT

Titel:
Rapportens titel

Tema:
Semestertema

Projektperiode:
Efterårssemestret 2010

Projektgruppe:
XXX

Deltager(e):
Forfatter 1
Forfatter 2
Forfatter 3

Vejleder(e):
Vejleder 1
Vejleder 2

Oplagstal: 1

Sidetal: 9

Afleveringsdato:
17. august 2022

Abstract:
Her er resuméet

Contents

Preface

This is the preface. You should put your signatures at the end of the preface.

Aalborg University, August 17, 2022

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Chapter 1

Introduction

Welcome to Aalborg University (AAU). Here we use LaTeX to typeset our high quality reports. Checkout the Appendix A for examples.

Acronyms

AAU Aalborg University. 1

Bibliography

[1] Daniel Runge Petersen. *AAU-Dat templates*. URL: https://github.com/AAU-Dat/templates (visited on 08/17/2022).

Appendix A

Examples

When working in LaTeX we have basic text, such as this, and non-basic elements called 'floats'. They are called floats because they float about the page, trying to be as unobtrusive as possible. The common floats used by us Computer Science students are: Figures, Tables, Listings, and potentially Algorithms.

A.1 Figures

Figures include an image or a graphical frame of some sort.

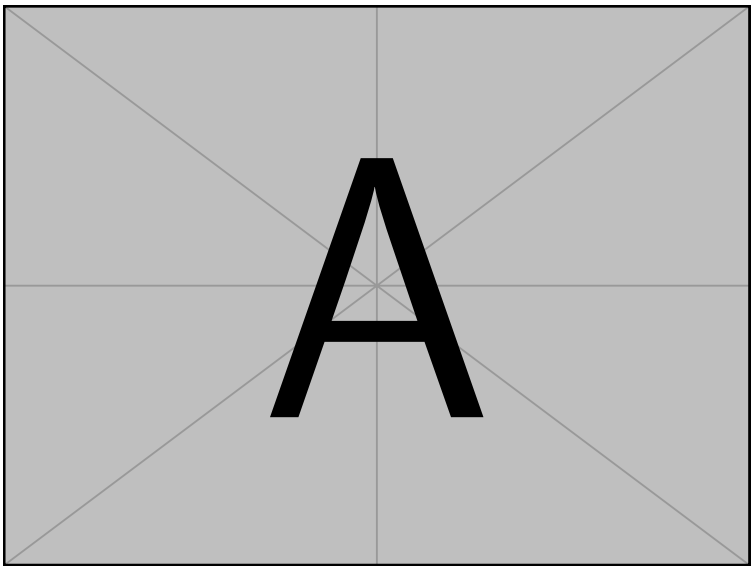

Figure A.1: An example of a figure float with width at 70% text width - **do not** use scale.

A.2 Tables

Tables are often more difficult than figures, but they can look gorgeous.

Features	Events	Threads	**Protothreads**
Control structures	no	yes	**yes**
Debug stack retained	no	yes	**yes**
Implicit locking	yes	no	**yes**
Preemption	no	yes	**no**
Automatic variables	no	yes	**no**

Table A.1: An example table. Do not use *vertical* (|) lines if you can avoid it.

A.3 Listings/Algorithms

We can use the listing float for both code and pseudocode, but in case you want to distinguish between them, the Algorithm environment is a good substitute for pseudocode.

```c
#include <stdio.h>

int main() {
    printf("Hello World!");
    return 0;
}
```

Listing A.1: Example of C code with standard styling.

```python
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int)  #dummy variable
```

Listing A.2: Example of python code with custom styling from preamble and lines highlight.

For pseudocode, if you don't want to use the listing float, you can use the algorithm float instead.

INSERTION-SORT(A)

```
1  for j = 2 to A.length
2      key = A[j]
3      // Insert A[j] into the sorted sequence A[1..j-1].
4      i = j - 1
5      while i > 0 and A[i] > key
6          A[i+1] = A[i]
7          i = i - 1
8      A[i+1] = key
```

Algorithm A.1: Example of pseudocode (codebox) in an algorithm float.

A.4 Floats and content

Note that Figures use includegraphics, Tables use tabular, Listings use minted and Algorithms use codebox in the above example. This is NOT a hard and fast rule. You could have an Algorithm with an includegraphics screengrab, or a Listing with a tabular to create columns for code side by side comparisons.