Your name

THE VERY LONG TITLE OF YOUR THESIS IS WRITTEN HERE

Master thesis
for the degree MSc in ..., Electronics

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Norwegian University of Science and Technology
Faculty of Information Technology,
Mathematics and Electrical Engineering
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NTNU
Innovation and Creativity

NTNU

Norwegian University of Science and Technology

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Abstract

Abstract of the thesis.

Preface

I would like to thank....

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ADC Analogue to Digital Converter

Chapter 1

Introduction

1.1 Section 1

The purpose of this project is ... In Figure 1.1, ...

Figure 1.1: Long caption

List some items...

1.2 Main contributions

- Item 1
- Item 2
- Item 3

Chapter 2

Title: Chapter 2

In order to understand how ...

2.1 Section

Some useful information is described in [CHC06] and [Wei].

A signal, $x(t)$, is defined as

$$T(a,b) = \frac{1}{\sqrt{a}} \int_{-\infty}^{+\infty} x(t)\psi^*(\frac{t-b}{a})\delta t, \tag{2.1}$$

where $\psi^*(t)$ is ...

Certain mathematical criteria has to be satisfied in order to ...:

1 Item 1

2 Item 1

Table 2.1 is shown below.

Description 1 *Description 2*	
xxx	yyy
111	222

Table 2.1: Long caption

In Algorithm 1, ...

Algorithm 1 Algorithm caption

procedure ModExp(M, e, n, k)= $M^e \mod n$
    $M_m \leftarrow M \cdot r \mod n$
    $X_m \leftarrow 1 \cdot r \mod n$
    for $i \leftarrow k-1, 0$ **do**
        $X_m \leftarrow \text{MonPro}(X_m, X_m, n, k)$
        if $e_i = 1$ **then**
            $X_m \leftarrow \text{MonPro}(M_m, X_m, n, k)$
        end if
    end for
    $X \leftarrow \text{MonPro}(X_m, 1, n, k)$
    return X
end procedure

Appendix A

Appendix 1 chapter title

In this appendix chapter, the detailed analysis of ...

A.1 Section

Write something here.

Subsection

Write something else here.

Appendix B

Appendix 2 chapter title

In this appendix chapter, ...

B.1 Appendix section

This is appendix...

B.2 Matlab code

Matlab-code B.1: helloworld.m

```
1 fprintf('Hello world!\n');
2
3 x = rand(100,1)*16 - 8;
4 y = rand(100,1)*16 - 8;
5 r = sqrt(x.^2 + y.^2) + eps;
6 z = sin(r)./r;
```

Matlab-code B.1: helloworld.m

B.3 C code

C-code B.2: helloworld.c

```
1 #include <stdio.h>
2
3 main()
4 {
5   for(;;)
6       {
7           printf ("Hello World!\n");
8       }
9 }
```

C-code B.2: helloworld.c

Bibliography

[CHC06] A. Chao-Hung Cheng. *Application-specific architecture framework for high-performance low-power embedded computing.* PhD thesis, Ann Arbor, MI, USA, 2006. Adviser-Tyson, G. S. and Adviser-Mudge, T. N.

[DCDM97] K. Danckaert, K. Catthoor, and H. De Man. System level memory optimization for hardware-software co-design. In *CODES '97: Proceedings of the 5th International Workshop on Hardware/Software Co-Design*, page 55, Washington, DC, USA, 1997. IEEE Computer Society.

[KKA97] L. Keselbrener, M. Keselbrener, and S. Akselrod. Nonlinear high pass filter for r-wave detection in ecg signal. *Medical engineering & physics*, 19(5):481–484, 1 June 1997.

[Tex09] Texas Instruments. *MSP430 Ultra-Low-Power Microcontrollers*, 2009.

[Wei] E.W. Weisstein. Convolution. From MathWorld–A Wolfram Web Resource. http://mathworld.wolfram.com/Convolution.html on April 26, 2009.

[WJH03] B.B. Welch, K. Jones, and J. Hobbs. *Practical Programming in Tcl & Tk.* Prentice Hall Professional Technical Reference, 2003.