HELSINKI UNIVERSITY OF TECHNOLOGY Department of Electrical and Communications Engineering Laboratory of Hyper-Mytologic Engineering

Teemu Teekkari

My Master's Thesis and How It Was Won

Master's Thesis submitted in partial fulfillment of the requirements for the degree of Master of Science in Technology.

Helsinki, May 1, 2016

Supervisor: Professor Matti Möttölä Instructor: Minna Mallila, M.Sc.

HELSINKI UNIVERSITY OF TECHNOLOGY

ABSTRACT OF THE MASTER'S THESIS

Author:	Teemu Teekkari						
Name of the Thesis:	My Master's Thesis and How It Was Won						
	(when using two lines for the title)						
Date:	May 1, 2016	Number of pages: XXX + XX					
Department:	Department of Electrical and	Communications Engineering					
Professorship:	S-xxx Electrical Dreaming						
Supervisor:	Prof. Matti Möttölä						
Instructor:	Minna Mallila, M.Sc.						
Abstract text.							
Keywords: thesis, latex	, electiricity						

TEKNILLINEN KORKEAKOULU

DIPLOMITYÖN TIIVISTELMÄ

Tekijä:	Teemu Teekkari							
Työn nimi:	Diplomityöni ja kuinka se (lopulta) kukistettiin							
	(kahden rivin pituisella diplomity	ön otsikolla)						
Päivämäärä:	1.5.2016	Sivuja: XXX + XX						
Osasto:	Sähkö- ja tietoliikennetekniikan osasto							
Professuuri :	S-xxx Sähköinen nukunta							
Työn valvoja:	Prof. Matti Möttölä							
Työn ohjaaja:	DI Minna Mallila							
Abstraktin teksti.								
Avainsanat: diplomityö, latex, sähkö								

Acknowledgements

This Master's thesis I want to thank Many thanks go to I wish to thank I would also like to thank My gratitude also goes to Finally, I would like to thank

Otaniemi, May 1, 2016

Teemu Teekkari

Contents

Al	bbreviations	vi
Li	st of Figures	vii
Li	st of Tables	viii
1	Introduction	1
	1.1 Background	1
2	Measurement Facilities	3
3	Study	4
	3.1 Methods	4
	3.2 Results	5
4	Analysis	6
5	Conclusions	7
RI	EFERENCES	8
A	Haxör program	9

Abbreviations

- DC Direct current
- UI User Interface

List of Figures

1.1	Human brain	 												2

List of Tables

1.1	The laser sensor head settings.	 •	•	•	 •	•	•	 •	•	•	•	•	•	• •	•	•	1
3.1	Table caption.	 •											•				4

Introduction

Introduction.

1.1 Background

Use your brain while doing the thesis (Figure 1.1). When citing, dig out the original reference (Geldard, 1960), even when talking about UIs (Minsky, 1984). You can also refer to some excellent thesis works (Jyrinki, 2004).

There was a laser (Table 1.1)! And ISO standards (ISO, 1995).

Table 1.1: The laser sensor head settings.

Tracking Filter	Slow
Velocity Decoder	DC
Velocity Range	$25\mathrm{mm/s/V}$
Velocity Filter	$16.0\mathrm{kHz}$

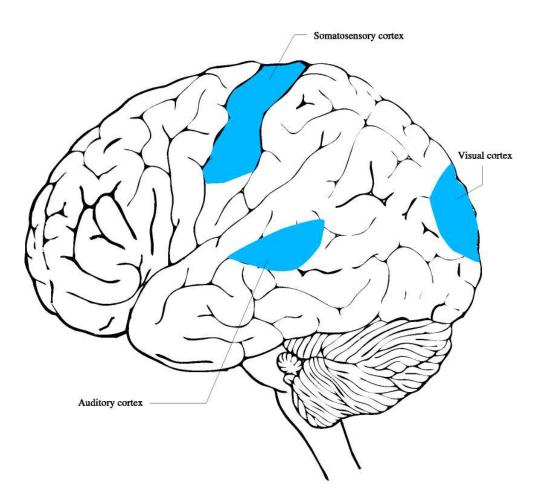


Figure 1.1: Diagram of the human brain, showing the main sensory receiving areas. (modified from Goldstein, 2001)

Measurement Facilities

You should name the chapters yourself.

Study

I studied.

3.1 Methods

There were some methods. And magic numbers, see Table 3.1. I also did some serious coding - the code is included in Appendix A.

The first series	1	The second series	1	The third series	1
of numbers	2	of numbers	2	of numbers	2
	3		3		3
Tables	4		4		4
	5	are	5		5
	6		6	fun	6
	7		7		7
	8		8		8
	9		9		9
	Α		A		A
	В		В		В

Table 3.1: Table caption.

3.2 Results

Results were very very good. I used χ^2 (Equation 3.1).

$$\chi^2 = \frac{\Sigma (O-E)^2}{E} \tag{3.1}$$

Analysis

...

...

Conclusions

REFERENCES

- Geldard Frank A. 1960. Some Neglected Possibilities of Communication. Science, 131, 1583–1588.
- Goldstein E. Bruce. 2001. *Sensation and Perception*. 6th edn. Wadworth Publishing Company.
- ISO. 1995. Mechanical vibration Guidelines for the measurement and the assessment of human exposure to hand-transmitted vibration. International standard ISO 5349:1986. International Organization for Standardization, Geneva, Switzerland.
- Jyrinki Timo. 2004. Perception of Small Device Vibration Characteristics Test Facilities Setup and Study. Master's Thesis, Helsinki University of Technology, Department of Electrical and Communications Engineering.
- Minsky Margaret R. 1984. Manipulating simulated objects with real-world gestures using a force and position sensitive screen. Pages 195–203 of: Proceedings of the 11th annual conference on Computer graphics and interactive techniques. ACM Press.
- The GNU Project. 2004. GNU Compiler Collection. Internet. http://gcc.gnu.org/, checked September 3rd, 2004.

Appendix A

Haxör program

I coded some hardcore C code. You can even compile it (The GNU Project, 2004).

```
/* hardcore.c
 *
 * Outputs the meaning of liff.
 */
#include <stdio.h>
int main(void)
{
    printf("42\n");
    return 0;
}
```