BACHELOR PAPER

Term paper submitted in partial fulfillment of the requirements for the degree of Bachelor of Science in Engineering at the University of Applied Sciences Technikum Wien - Degree Program Biomedical Engineering

A smart title Really smart title

By: Gregor Beyerle

Student Number: 1210227035

Supervisor: FH-Prof. Dipl. Ing. Dr. Lars Mehnen

Vienna, May 6, 2015



Declaration

"As author and creator of this work to hand, I confirm with my signature knowledge of the relevant copyright regulations governed by higher education acts (for example see §§21, 46 and 57 UrhG (Austrian copyright law) as amended as well as §11 of the Statute on Studies Act Provisions / Examination Regulations of the UAS Technikum Wien).

In particular I declare that I have made use of third-party content correctly, regardless what form it may have, and I am aware of any consequences I may face on the part of the degree program director if there should be evidence of missing autonomy and independence or evidence of any intent to fraudulently achieve a pass mark for this work (see §11 para. 1 Statute on Studies Act Provisions / Examination Regulations of the UAS Technikum Wien).

I further declare that up to this date I have not published the work to hand nor have I presented it to another examination board in the same or similar form. I affirm that the version submitted matches the version in the upload tool."

Place, Date Signature

Kurzfassung

ICH BIN EIN TEST

Schlagworte: BOINSO

Abstract

I AM A TEST

Keywords: BOINSO

Acknowledgements

I acknowledge this paper as a piece of bullcr*p

Contents

1	Introduction								1	
	1.1	Blubbi								
		1.1.1	Blubblubblub							1
Bibliography										2
List of Figures										4
List of Tables										5
List of Code									6	
List of Abbreviations									7	

1 Introduction

This is an introduction

1.1 Blubbi

test test test

1.1.1 Blubblubblub

Blaaaaa

test test test Examples for citing [8], [9], [2], [13], [5], [6], [14], [3], [11], [12], [7], [1], [4], [10].

Bibliography

- [1] ATMEL CORPORATION: Atmel ATmega16 8-bit Microcontroller with 16K Bytes In-System Programmable Flash, 2011.
- [2] GOOSSENS, M., F. MITTELBACH and A. SAMARIN: *Der LaTeX Begleiter*. Addison-Wesley Deutschland, Bonn, 2002.
- [3] HEMETSBERGER, H.: AIT Stereo Sensor im Einsatz während der DARPA Urban Challenge 2007, 2007. AIT Austrian Institute of Technology.
- [4] HUMENBERGER, M.: Real-Time Stereo Matching for Embedded Systems in Robotic Applications, 2011.
- [5] HUMENBERGER, M., D. HARTERMANN and W. KUBINGER: Evaluation of Stereo Matching Systems for Real World Applications Using Structured Light for Ground Truth Estimation. In Proceedings of the Tenth IAPR Conference on Machine Vision Applications (MVA2007), pp. 433–436. MVA Conference Committee, 2007.
- [6] HUMENBERGER, M., C. ZINNER, M. WEBER, W. KUBINGER and M. VINCZE: *A fast stereo matching algorithm suitable for embedded real-time systems*. Computer Vision and Image Understanding, 114(11):1180–1202, 2010.
- [7] INTERNATIONAL STANDARDS OFFICE: ISO 690 Information and documentation: Bibliographical references: Electronic documents, 1998.
- [8] KOPKA, H.: LaTeX, Band 1: Einführung. Pearson Studium, München, 3 ed., 2005.
- [9] KOPKA, H.: LaTeX, Band 1: Einführung. Pearson Studium, München, 3 ed., 2005.
- [10] POHN, J.: Condition Monitoring Systeme für die zustandorientierte Instandhaltung von Windkraftanlagen, 2010.
- [11] SIEMENS AUTOMATION TECHNOLOGY: SIMATIC, 2011.
- [12] SIEMENS AUTOMATION TECHNOLOGY: *SIMATIC*, 2014. [Online] Verfügbar unter: http://www.automation.siemens.com/mcms/topics/de/simatic/Seiten/Default.aspx [Zugang am 17.10.2014].
- [13] TESCHL, S., K. M. GÖSCHKA and G. ESSL: Leitfaden zur Verfassung einer Bachelorarbeit oder Master Thesis, 2014.

[14] ZINNER, C., W. KUBINGER and R. ISAACS: *Pfelib: a performance primitives library for embedded vision*. EURASIP Journal on Embedded Systems, 2007:1–14, 2007.

List of Figures

List of Tables

List of Code

List of Abbreviations

FC Flight-Controller

PWM Pulsweitenmodulation

UAV Unmanned Aerial Vehicle

MOSFET Metall-Oxid-Halbleiter-Feldeffekttransistor

I²C Inter-Integrated Circuit

ISP In-System Programming

LiPo Lithium-Polymer