TIM OESTERREICH BUILDING LARGE DYNAMIC TRUSS STRUCTURES

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TIM OESTERREICH



Using TrussFormer April 2018 – version 4.5

Tim Oesterreich: *Building Large Dynamic Truss Structures*, Using Truss-Former, © April 2018

Ohana means family. Family means nobody gets left behind, or forgotten.

— Lilo & Stitch

Dedicated to the loving memory of Rudolf Miede.

1939 – 2005

ABSTRACT

Short summary of the contents in English...a great guide by Kent Beck how to write good abstracts can be found here:

https://plg.uwaterloo.ca/~migod/research/beck00PSLA.html

ZUSAMMENFASSUNG

Kurze Zusammenfassung des Inhaltes in deutscher Sprache...

We have seen that computer programming is an art, because it applies accumulated knowledge to the world, because it requires skill and ingenuity, and especially because it produces objects of beauty.

— Donald E. Knuth [1]

ACKNOWLEDGMENTS

Put your acknowledgments here.

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¹ Members of GuIT (Gruppo Italiano Utilizzatori di TEX e LATEX)

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INTRODUCTION

Personal fabrication devices, such as 3D printers, are already widely used for rapid prototyping and allow non-expert users to create interactive machines, tools and art. As consumer-grade 3D printers are usually desktop-sized, the size of these objects are, however, fairly limited. TrussDynamics aims to enable users to create large-scale dynamic objects using desktop-sized 3D printers.

RELATED WORK

WALKTHROUGH

HARDWARE

CONCLUSION

BIBLIOGRAPHY

[1] Donald E. Knuth. "Computer Programming as an Art." In: *Communications of the ACM* 17.12 (1974), pp. 667–673.

DECLARATION

I certify that the material contained in this thesis is my own work and does not contain unreferenced or unacknowledged material. I also warrant that the above statement applies to the implementation of the project.

Hiermit versichere ich, dass ich die vorliegende Arbeit selbstständig verfasst und keine anderen als die angegebenen Hilfsmittel verwendet habe. Ich erkläre hiermit weiterhin die Gültigkeit dieser Aussage für die Implementierung des Projekts.

Potsdam, April 2018	
	Tim Oesterreich

COLOPHON

This document was typeset using the typographical look-and-feel classicthesis developed by André Miede and Ivo Pletikosić. The style was inspired by Robert Bringhurst's seminal book on typography "The Elements of Typographic Style". classicthesis is available for both LATEX and LYX:

https://bitbucket.org/amiede/classicthesis/

Happy users of classicthesis usually send a real postcard to the author, a collection of postcards received so far is featured here:

http://postcards.miede.de/

Thank you very much for your feedback and contribution.

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