

UNIVERSITY OF MUNICH
Department "Institute for Informatics"
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Master Thesis

Web-Based Creator for Activity Sculptures

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Acknowledgements

Zusammenfassung

Kurzzusammenfassung der Arbeit, maximal 250 Wörter.

Abstract

Short abstract of the work, maximum of 250 words.

Task Definition

Kopie der Original-Aufgabenstellung

I confirm that I indepently prepared the thesis and that I used only the references and auxiliary means indicated in the thesis.

Munich, May 11, 2015

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1 INTRODUCTION

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1.1 Motivation

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1.3 Goals

1.4 Content overview

2 BACKGROUND & RELATED WORK

Background & Related Work

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2.1 Product Customization Software

2.1.1 Usability Aspects

2.1.2 Technological Limitations

2.2 Activity Sculptures

2.3 Digital Visualization & Fabrication Workflows

2.4 Summary

3 PROTOTYPE DESIGN

Prototype Design

3 Prototype Design

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4 IMPLEMENTATION

Implementation

4 Implementation

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User Study

5 User Study

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6 CONCLUSION

Conclusion

6 Conclusion

7 FUTURE WORK

Future Work

7 Future Work

Appendix

A Online Questionnaire

B User Study Results

B.1 Questionnaire Results

B.2 Heat Map Images

C Prototype Sketches

C.1 Sculpture Prototypes

C.2 Web Configurator Prototypes

D Code Snippets

Contents of the enclosed CD

Thesis

- L^AT_EX Document
- PDF File

Presentations

- Initial presentation
- Final presentation

Activity Sculpture Web Configurator

- Prototype sketches
- Source code
- Gitlab and Github mirrors
- Instructions for deployment
- Login Data

Sculptures

- Prototype sketches
- .stl 3D print ready example files

User Study

- Questionnaire
- Results
- Heat map images

References