

CARL VON OSSIETZKY UNIVERSITÄT OLDENBURG · 26111 OLDENBURG

DEPARTMENT FÜR INFORMATIK

Call for Bachelor/Master Thesis

Abteilung Didaktik der Informatik

Description:

Prof. Dr. Ira Diethelm

The ability to program is becoming increasingly important in industry and is often mentioned as a crucial skill for future employment. In maker culture, a subculture of the DYI movement, the ability to program often exceeds this limitation and further includes personal expression through the creation of meaningful projects that are linked with social, cognitive and entertaining activities. The maker movement empowered by increasingly accessible state-of-the-art digital fabrication machines like 3D printers and laser cutters promises to enhance the learning experience in Computing Education.

Sekretariat Manuela Wüstefeld



TELEFONDURCHWAHL (0441) 798 - 2030

SEKRETARIAT (0441) 7 98 - 4521

FAX

(0441) 7 98 - 2196

FMAII

Claudia.Hildebrandt@uni-oldenburg.de

http://www.uni-oldenburg.de/ifib/

GEBÄUDE A2

Uhlhornsweg 84 - Raum A2 2-235

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We are looking for bachelor/master students who are interested in doing their thesis with us. The main topics include:

- Making with digital fabrication in Computing Education
- Explorations and evaluations of digital fabrication in formal (like schools or universities) and informal learning settings (makerspaces, fab labs, hackerspaces, etc.)
- Creativity in Computing Education
- Creative arts with digital fabrication and computational/parametric de-
- Innovative ideas in research and education with digital fabrication (e.g. 3D printing)
- New methods for digital fabrication in educational contexts
- Exploration of emerging technologies for digital fabrication
- Design thinking, innovation or entrepreneurship in education

Required Skills:

PAKETANSCHRIFT

- You are motivated to deepen your knowledge on 3D printing/ 3D design or educational programming software like Scratch
- You are interested in the field of Computing Education
- Ideally you are fluent in German and English

POSTANSCHRIFT D-26111 Oldenburg

Ammerländer Heerstraße 114 - 118 D-26129 Oldenburg

TELEFONZENTRALE (0441) 798 - 0

Interested students are invited to contact Christos Chytas for further information at christos.chytas@uni-oldenburg.de