



Technische
Hochschule
Augsburg



Research and Teaching in Timber Engineering

TECHNICAL UNIVERSITY OF APPLIED SCIENCES AUGSBURG

**Faculty for Architecture and
Civil Engineering**

Study Program

Bachelor:

- Architecture
- Civil Engineering
- Energy Efficient Planing and Building
- Digital.Design and Production (*NEW*)

Master:

- Architecture
- Civil Engineering
- Energy Efficiency Design

Research Topics

- Concrete Engineering
- Waste Water Treatment
- Building Physics
- Facades
- Geotechnics
- Timber Engineering
- Robotic Fabrication
- ...

Laboratories and Institutes

Institute for Timber Construction

- Established: 2013
- Staff: 6
- Notified certification body

External supervision and technical approvals



Laboratory exercise

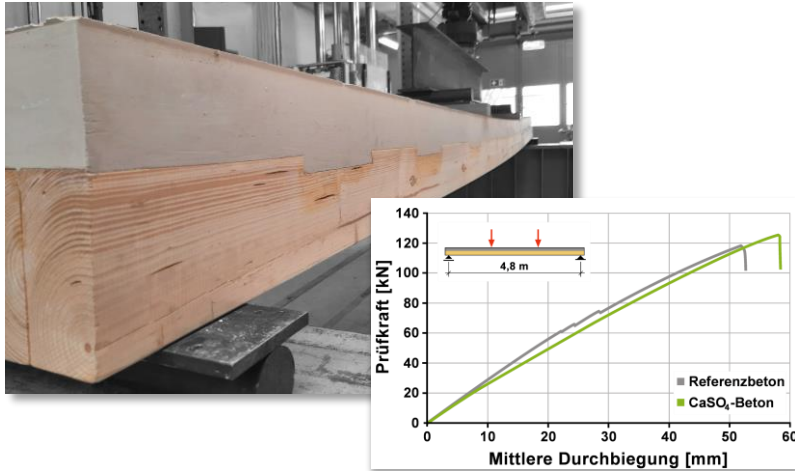


R&D and material testing



Research Projects

Optimizing timber-concrete composite structures by the substitution of cement and steel reinforcement



Connector testing for the Metropol Parasol in Seville (Spain)



Source: zueblin-timber.com

<https://youtu.be/khYG2vXHQeo?feature=shared>

Laboratory Events

“Christmas Beam Tests”



“Structural analysis contest”



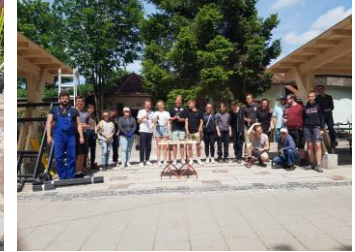
Student Project “Load-bearing capacity of old wooden beams“

Bachelor students (civil engineering) tested and calculated the load-bearing capacity of wooden beams from an old barn.



Student Project “Just Do It! – From planning to reality“

The project team (architecture master students) developed a concept for a new entrance area of a youth center. They also designed and built the wooden structures for a bicycle stand and a covered waiting area.



DAAD-Program "Research Internships in Science and Engineering – Rise"

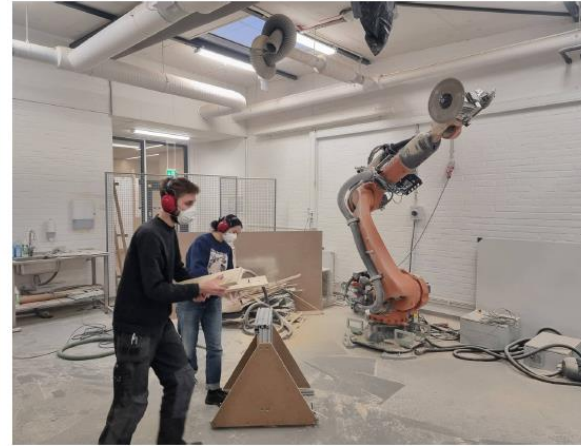


"I think this program would be an amazing experience for students from all over the world and I have even recommended it to other students from my home university." – Summer Prentice, UNC Charlotte



"I couldn't recommend an international placement more." – Alexander Robinson, University of Bath

Robotic Timber Fabrication



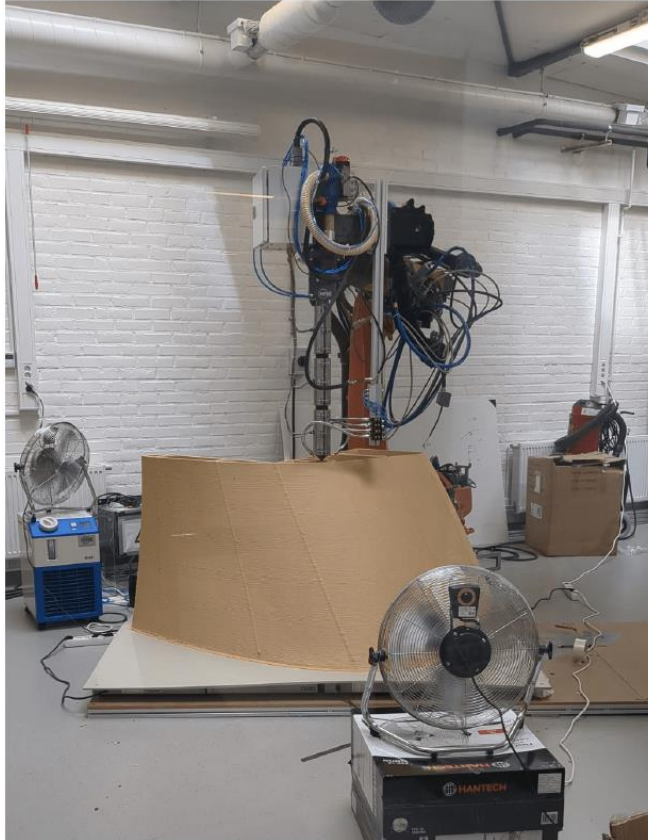
Reciprocal Shell
Research project - Material & Detail - Fall 2022
Chalmers University + Augsburg University of Applied Sciences
Teacher and research assistant

Robotic (Timber) Fabrication



3D printed base - LSAM
Research project - Tracks Course - Spring 2023
Chalmers University
Teacher and research assistant

Robotic (Timber) Fabrication



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Research project - Tracks Course - Spring 2023
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Contact us...



Karl Åhlund, M.Sc.

Mail: karl.ahlund@tha.de



Michael Mikoschek, M.Sc.

Mail: michael.mikoschek@tha.de

Instagram:

[@hsa_wsb](#)

[@digitaltimberlab](#)

Technical University of Applied Sciences Augsburg
Faculty of Architecture and Civil Engineering
An der Hochschule 1
D-86161 Augsburg