


# Entrepreneurship for Digital Fabrication and Construction Robotics

**Other Conference Item**

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## ***Entrepreneurship for Digital Fabrication and Construction Robotics PhD research (Y1) Alexander Walzer, ETH Zürich (Prof. Dr. Daniel Hall)***

### ***Research problems***

This research investigates the opportunities and challenges for new and existing firms in the construction industry when utilizing innovative technologies, such as 3D-printing and robotics. The investigation involves studies on emerging and existing business models and product development strategies, and assesses current market trends for construction.

### ***Research methods***

The research will start with extensive literature review and further be conducted using multimethodology including ethnography, surveys and interviews. It is expected to also include experimental assessment of case studies on the open market and their data.

### ***Expected results***

It is expected to find correlation between market opportunities and technological innovation in the construction sector. Furthermore, it is expected to present strategies to mitigate risks for new and existing AEC firms when embracing a path of technological advancement.

### ***Outlook***

The findings of this research will help present relevant facts for stakeholders in AEC. Yet, both sample size of participants, their biases and other currently unknown limitations will be faced. Further research might include a more direct “hands-on” approach using a cohort of Start-Ups (such as in a foundry, an incubator or accelerator programme) under close and direct guidance and thus also provide a more in-depth and unbiased information.

