

# Design For Manufacturing and Assembly

Prototype Building Workshop – 18.5 AIBC LU's  
February 9-11, 2023



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## Overview

Design for Manufacturing and Assembly (DFMA) is a design approach that focuses on ease of manufacturing and efficiency of assembly. In North America, due to the fragmented nature of construction whereby the designers, engineers, manufacturer, and contractors all work independently, bridging this knowledge gap will help improve the success rate of projects. DFMA will improve projects by reducing time, waste, cost and labour, while increasing quality and efficiency.

## 3-Day Workshop

This 3-day hands-on workshop will be held in a lecture-design-build format. It will be led by faculty and staff at the UBC Centre for Advanced Wood Processing (CAWP) and the UBC School of Architecture and Landscape Architecture (SALA).

The expertise from industry leaders in design, engineering, fabrication, and installation will also be called upon to discuss lessons learned in mass timber construction. Participants will be guided through the process of designing mass-timber projects with the consideration of manufacturing technologies.

The use of digital technology in design and manufacturing are aiding the realization of mass-timber projects. The participants will be supported through a design-build exercise utilizing Computer Aided Design (CAD) software for design and Computer Aided Manufacturing (CAM) software for manufacturing of components. The project will culminate with the fabrication of components and the assembly of a mass-timber structure.

## Who should attend?

This workshop is geared towards architects, engineers, and construction professionals interested in participating in a hands-on, design-build challenge with the goal to gain a better understanding of the processes required to efficiently design mass-timber structures.

## Instructors

AnnaLisa Meyboom, School of Architecture & Landscape Architecture  
Ilana Danzig, Aspect Engineering  
Joern Dettmer, UBC Wood Sciences

*With case studies by:* Lucas Epp from Structurecraft, Jon Boys from Nicola Logworks, CADWORKS, CadMakers, and Rothoblaas

**Fees:** \$695.00/person

**Register here:** [DFMA Registration](#)

**Workshop Information:** Jason Chiu at 604 822-0082 or [jason.chiu@ubc.ca](mailto:jason.chiu@ubc.ca)



## Industry Sponsors



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