Assignment 3.1
Making Computationally (SOA)

Posted March 24
Due before next class

Overview

This assignment is intended to get you to explore the state of the art in architecture and design robotics and (more generally) numerically controlled fabrication—a field with multiple applications in architecture, design and the arts.

Part 1: Find Resources

Cast a wide net in search of architectural robotics and fabrication projects that are interesting to you. You can use the links below as starting points, but you definitively should explore beyond this list. The projects you choose must involve the development of original software. Do the following: a) choose three different projects, b) document them, describe them, and explain why you chose them; c) describe the kind of data they are based on and d) try to explain how you think they work. There are many examples but you may start by looking at other university labs exploring architectural robotics.

Fabrication Robotics Network:
University of Michigan
Carnegie Mellon University
Massachusetts institute of technology
University of Technology, Sydney
Harvard University
Association of Robots in Architecture
Iaac Digital FabLab
ICD

Part 2: Prepare for coding for our ABB 2400 robot (AKA grabby)

Download the Lab Notes from the course's GitHub. Read it carefully and browse through the links included in the file. Then focus on the section on RobotStudio, and install it in your computer.