



ARCH 576: ARCHITECTURAL DRAWING MACHINES

Spring 2021
T/TH 11:00 – 12:20

Professor Aaron Brakke
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This graduate seminar examines the role of machines as tools for architectural design, drawing and fabrication. The course will introduce students to the rich history of architectural representation and will highlight how shifts within certain technological paradigms have affected artistic production. Students of this seminar will learn about the rich lineage of inventions developed as early as the Renaissance evidenced in the perspectival drawing machines that da Vinci and Durer created. Milestones from then until the most recent advances in augmented reality and artificial intelligence will be covered. The course will survey analog, mechanical, and computational machines through lectures, readings, and discussions. Coupled with the theoretical aspect of this seminar, students will learn how to use and make machines for drawing. Students will have access to digital fabrication equipment for this class and will have access to the VR lab, TechHUB and the brand new Siebel Center for Design. (3D printing, laser cutting and CNC). The deliverables for this seminar include a presentation, the development of computational drawings and a final project.

No previous knowledge of software or digital fabrication is necessary. The class will be in the Fablab and participants will have direct access to the tools.

All images are projects by Professor Brakke and his students.

