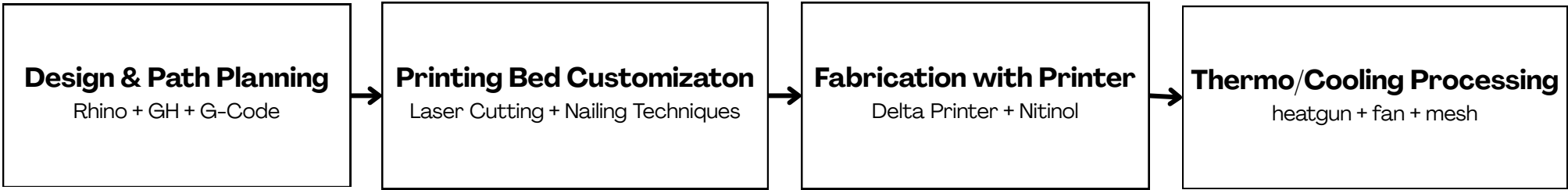


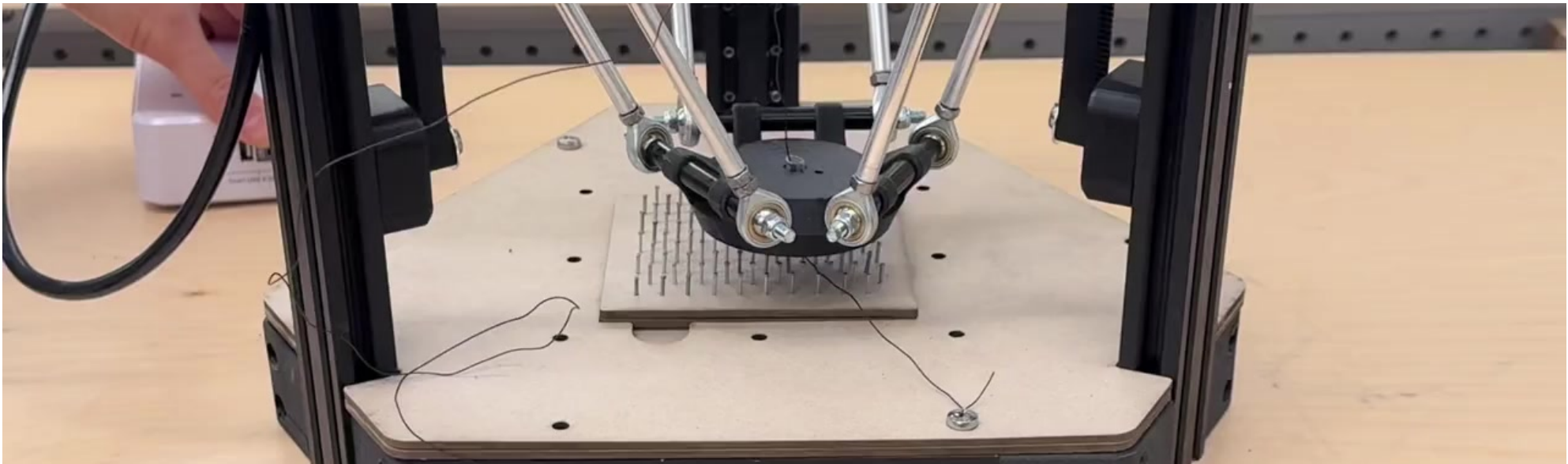
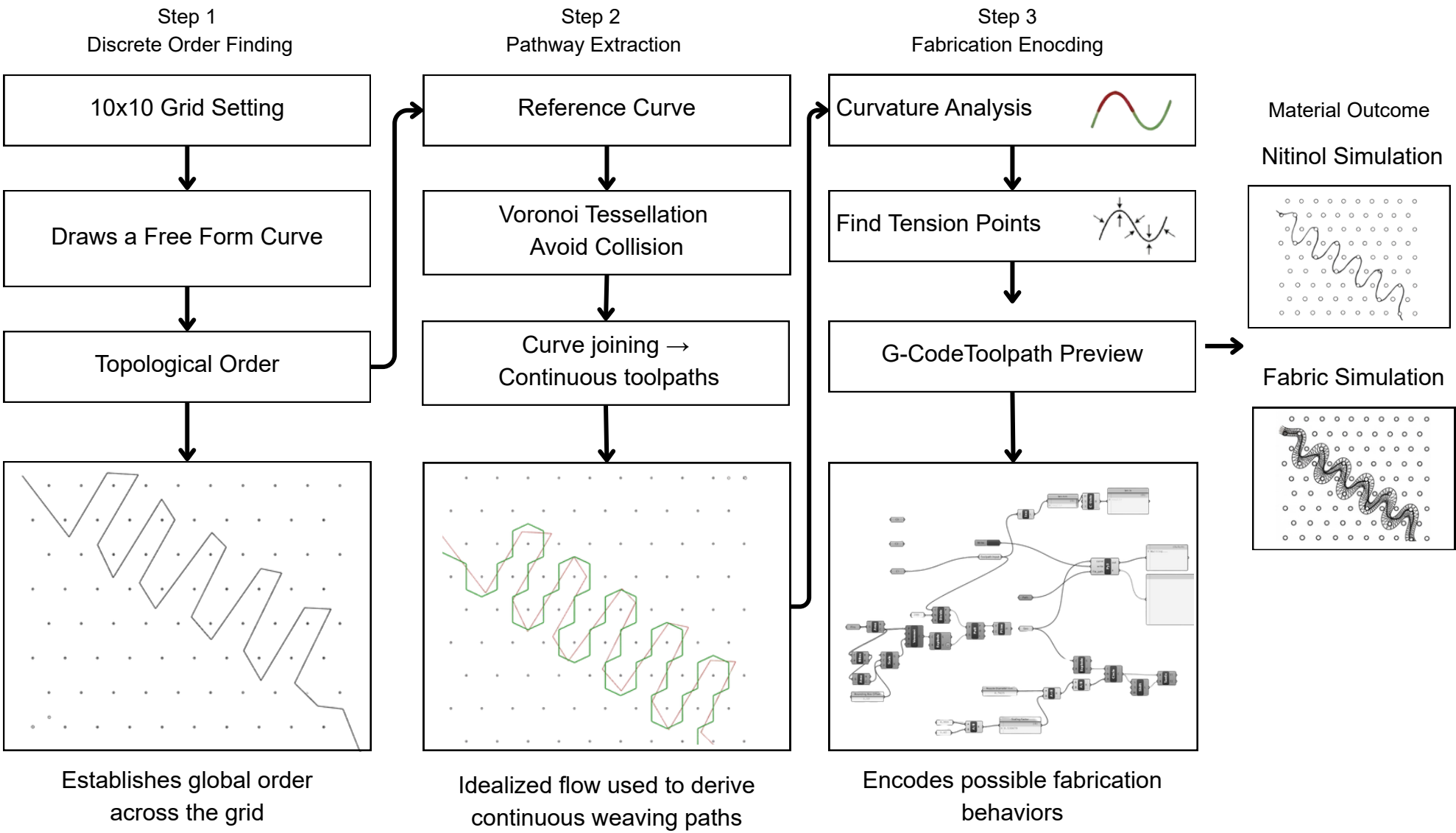
SHAPESHIFT: Designing with Nitinol

Nitinol is highly valued in design for its unique combination of shape-memory behavior, superelasticity, and biocompatibility. It allows components to deform and return to their original shape, making it ideal for applications needing flexibility, durability, and precise motion control. Its high fatigue resistance enables reliable performance in complex environments, allowing the creation of lightweight, compact mechanisms that conventional metals cannot achieve.

TECHNICAL PIPELINE

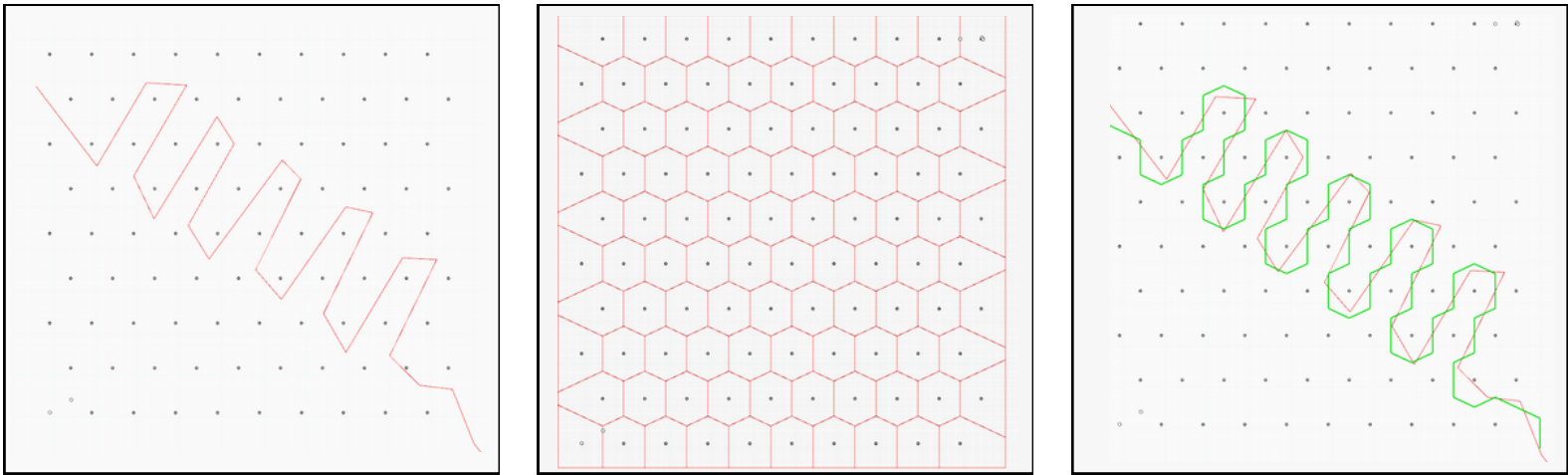


PATTERN SIMULATION

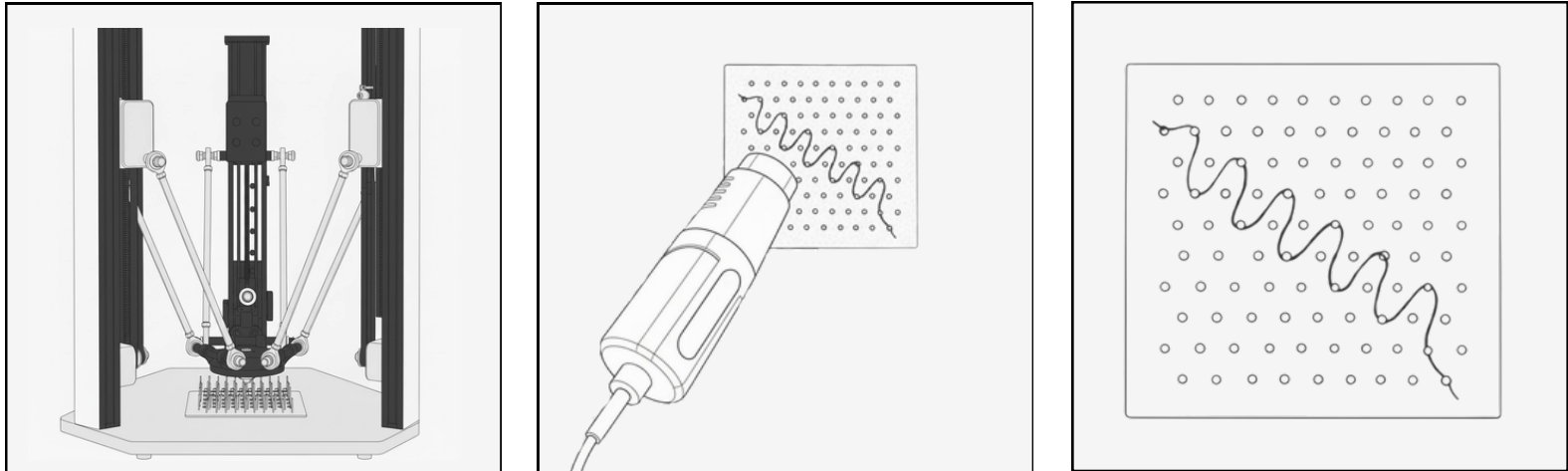


Fabrication Process

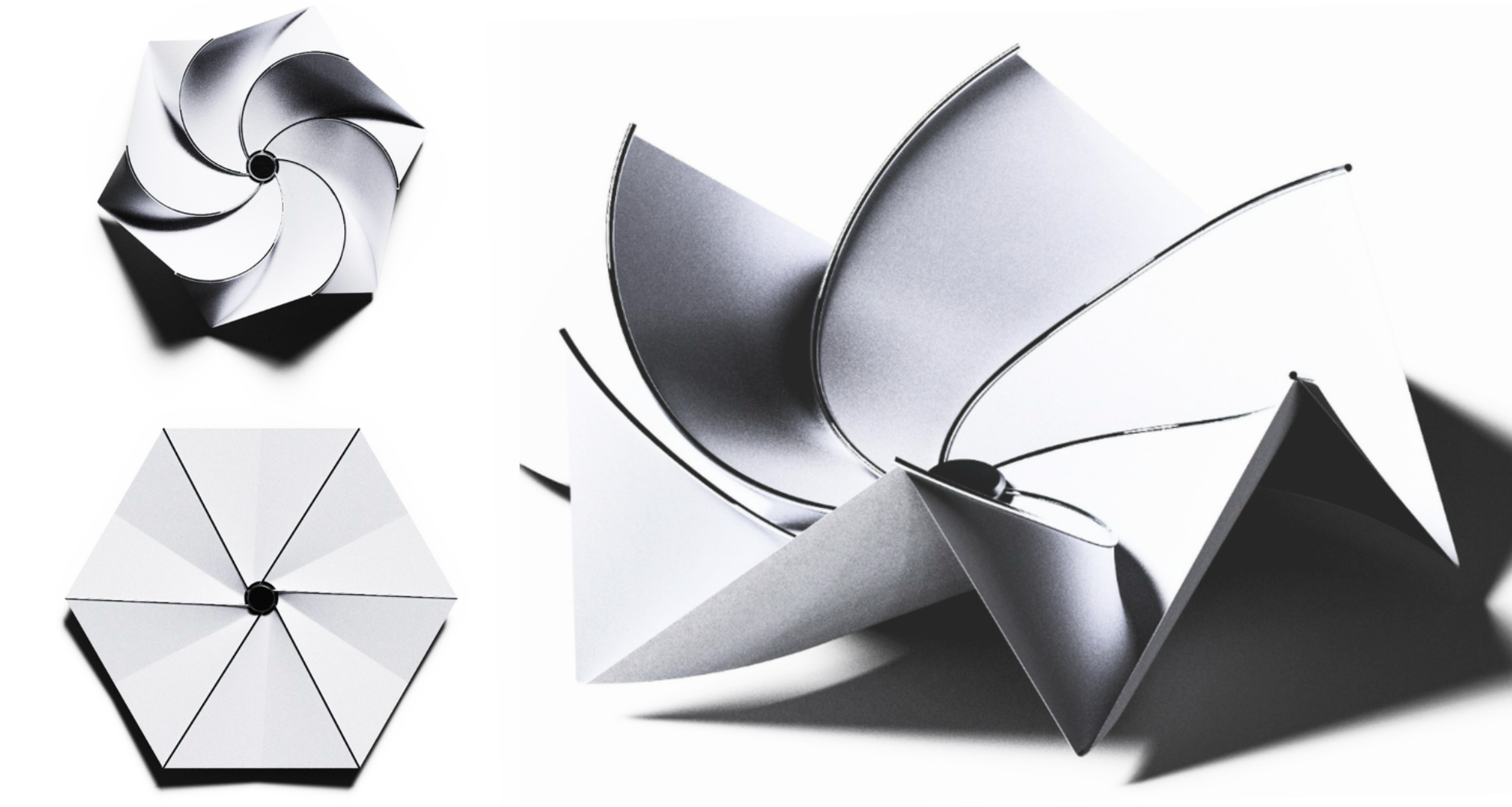
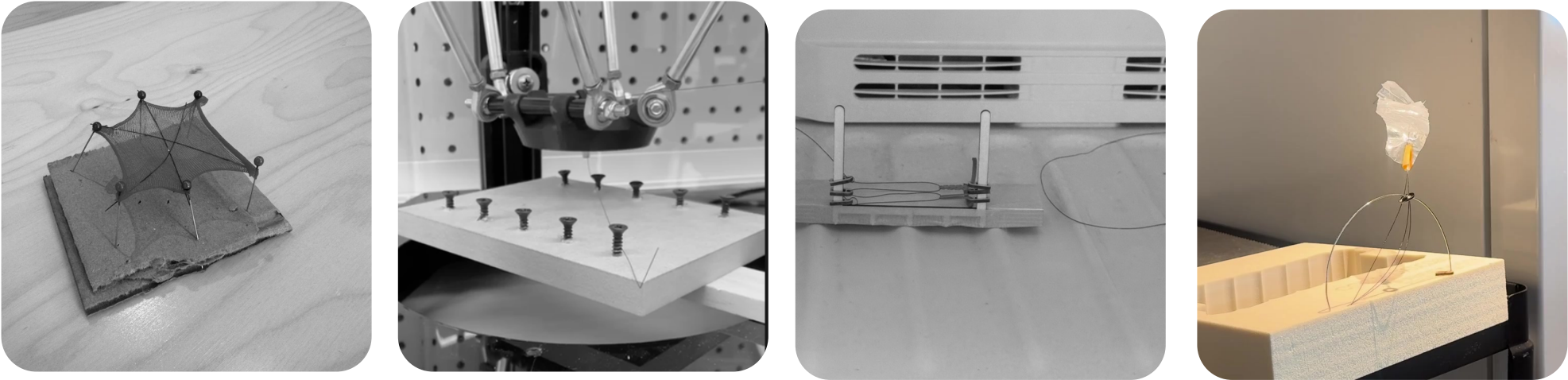
Recognize the Pattern



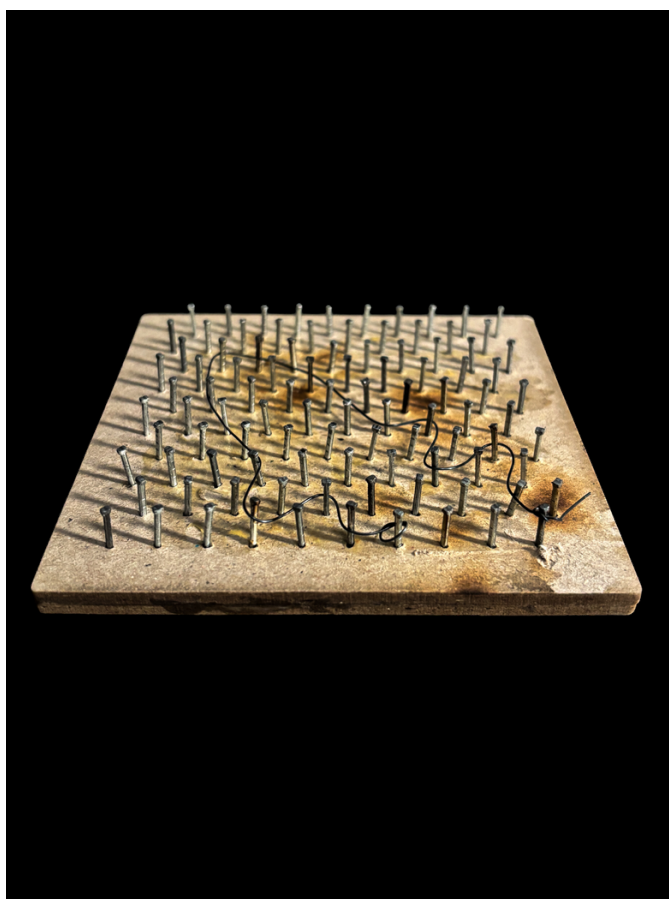
Weaving Post-Processing



Past Iterations How much can a nithol be actuated through variable changes? Experiment with different tensions, materials, fabrics, and thicknesses.



Pattern Generation Using the Machine



Fabric with Weaving as Its Foundation

