

## DYMAXION HOUSE 2.0

My father's approach to maintenance reflects Buckminster Fuller's vision for the Dymaxion House, where every item in the household is maximized for its full utility, with an emphasis on repair, reuse, and recycling. This sustainable ethos ensures nothing goes to waste, creating an eco-friendly home where each object serves a multifunctional purpose. Much like Fuller's design principles, my father's approach reflects a lifestyle deeply aligned with sustainability and efficient resource use.

In Phase 2 of this project, the focus is on repurposing old, broken, or unused furniture into new, functional pieces. This mirrors Fuller's principle of "doing more with less" by creatively reusing materials, reducing waste, and extending the life of discarded items. For instance, combining an old chair and a scratched coffee table into a new seating bench not only breathes new life into these objects but also showcases resourcefulness. This new piece of furniture may include hidden storage, offering adaptability and functionality, while its interlocking design allows for easy assembly and future repurposing.

The design takes a more sustainable turn by moving away from traditional fasteners like screws and glue, which hinder recyclability. A modular and glueless system emerges, where components interlock or use clamp mechanisms for easy disassembly and reuse. This system prioritizes minimal waste and maximum flexibility, with the furniture transforming as needs change, further extending its lifespan and embodying Fuller's resource optimization.

In Phase 3, the project focuses on creating a domestic environment that supports maintenance as a central activity, while providing a functional workspace. Dymaxion 2.0 replaces the central mast and prefabrication with a clamping system for materials like zinc sheets and bamboo panels. The flexible, modular structure enhances adaptability, making the house suitable for tropical climates, and ensures easy maintenance and modification over time. This updated version not only preserves resources but redefines the home as a space where sustainability and functionality merge seamlessly.