Amount Requested: $3,000,000

Funds will be used to develop a modular set of platforms that enable fast design and production of customized tents and shelters, which will be optimized to reduce energy consumption for cooling, heating and lighting. The project will focus on shelters that will be self sensing and self controlling that are designed for specific applications, have integrated systems that minimize energy waste, and that harvest and store solar energy. The project will also have a component focused on developing an inner-liner system that is lightweight, flexible, and portable, which will provide both fragmentation protection and thermal insulation to the structures.