R-STRIPE: a Robotic Retrofit System for Building Deep Energy Retrofits

STRIPE™ Insulated Panel

- Off-site fabrication
- Custom designed and built to exact building dimensions
- Insulation values from R-20 to R-80
- Unique structural load-bearing capacity
- Built-in window and door assemblies
- Pre-installed conduits and ducts for electric, plumbing and HVAC services

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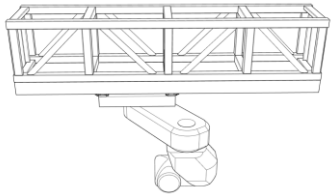

RoboBuild™ Robotic Retrofit

- Drone-enabled site mapping
- 3D site & building modeling & retrofit simulation
- Robotic removal of building exterior cladding and trim
- Robotic installation of air and water barriers
- Robotic microfactory for panel, cladding & trim fabrication
- Reduced worker injuries from ladder and roof falls

The R-STRIPE Value Proposition:

A Deep Energy Retrofit for the same cost as a conventional exterior refresh

The R-STRIPE system cuts the time, cost and disruption to the building occupants of a deep-energy retrofit by reengineering the value chain from initial project scoping to final completion. Our rapidly scalable solution will reduce building energy use to 50% below current energy codes, shorten project time by half, minimize occupant inconvenience and cost no more than most moderate rehab projects.

The R-STRIPE Team is co-led by Peter Harding and Joel Edelstein. Peter is an expert in high-performance buildings, building science, energy auditing and energy conservation and holds a patent on the STRIPE™ panel system. Joel is an expert in robotics, digital imaging and CNC automation. The Advisory Team includes experts in construction estimating, project management, electrical engineering and software development.