

# Exterior Envelope Air Leakage Robotic Test System

## Need Section:

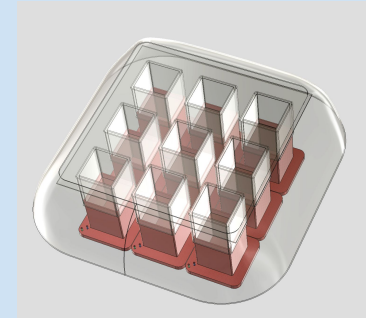
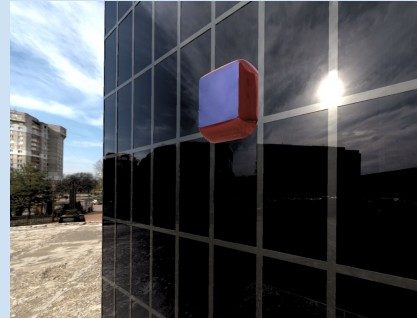
Current methods of testing building envelopes for leaks are either targeted to the entire building or specific sections commonly doors and windows.

Challenge Section: Air leakage is a major issue and currently it is very difficult to target an entire building.

## Proposed Solution:

A semi autonomous robot will check the building section by section. By sealing an array of test points onto the building envelope the robot will accurately pinpoint leaks in any area it surveys.

**Short Description:** We provide a localized exterior envelope air leakage testing system that is non-destructive and minimizes occupant disruption.



Dan Marsch



Steven Trevino

## Project Mentors:

Callye Keen  
Stephen Faletti  
Arvin Asokan

## Project Partners:

Positive Deviancy LLC.  
Red Blue Collective

**Team Description and Competitive Advantage:** Our team led by Dan Marsch and Steven Trevino are focused on the solution and have expert project mentors and partners willing to help.