



EASEEbot

A Robotic Envelope Assessment System for Energy Efficiency

America faces a leaky building epidemic. Annually, we spend over \$42 billion on leak and moisture related energy costs – a number that does not capture the costs associated with shorter envelope life cycle, lost rent, and litigation. To fix moisture issues, we must first find them. Current moisture location methods are intrusive, expensive, and potentially hazardous to worker safety. EASEEbot is our non-invasive and safe solution to locate and document moisture intrusion, thermal bridges, and air leaks. EASEEbot can fly around buildings and auto-generate a 3D model using advanced reconstruction techniques. EASEEbot's AI will identify and quantify common envelope defects. EASEEbot can also scale buildings and use long-wave radar and machine learning to detect hidden deep moisture penetration and other major envelope defects. EASEEbot is built on proven technology that we have extensive experience using and testing. We are backed by several highly interested local and national building science partners who will help us test and validate EASEEbot.

NYU E-ROBOT Team – Brooklyn, New York

Our Team



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