

Cover Page

Title: Robotic system for air sealing and insulating inaccessible attics.

Short description: We develop a robotic system that will air seal and insulate inaccessible attics and confined spaces. The system will crawl through attic spaces dispensing material into large and small gaps in the ceiling surface. In uninsulated and under-insulated spaces, the system will also be capable of applying additional insulation. The system will be composed of a robotic unit, remote control unit, vision system, mobile pressure vessels, dispense hoses, guns and nozzles. Due to the difficulty in finding, training and retaining workers to crawl through these spaces, the system is expected to significantly expand the number of confined spaces that can be air sealed and insulated.

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