6.101 Project Abstract

Analog Laser Snooper

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The project will involve using a laser to detect the vibrations of sound waves off of a piece of glass. The reflected laser signal will be carrying distortion from the sound waves and picked up by a receiver. The distorted signal will be filtered to only contain the audio from the targeted room, which will then be amplified and broadcasted through speakers or headphones at the receiver-end. Additionally, a laser transmitter will be built to carry audio to a room of choice containing a receiver so that an entire back-and-forth communication system will be constructed and functional, allowing two parties to have a conversation between two line-of-sight rooms.