The Sonest module was created to elevate the quality of the lifetime testing of the Sonos Play:1 Speaker.

The problem facing Sonos is the absence of quantitative data collection from their testing processes. The current method involves a sound technician periodically visiting the testing facility to listen to each unit and qualitatively evaluating the speaker.

The issues of this testing procedure are centered around the absence of quantifiable data collected, and the data collected is biased off of one human technician.

The solution to each of these is enveloped in the Sonest Module. The module will be front mounted on the front of a Play 1 and utilized to continuously monitor both the tweeter and woofer to gather accurate, quantifiable data over the span of the Lifetime Test. Through this data the determination of precise failure times and causes of failure will be determined.

Inside, the module will contain two MEMS microphones, an MCU, and an Ethernet port for power and data transmission. Data acquired will be transferred to a host computer for storage and analysis.