Problem
Wineries and distilleries have hundreds of barrels of alcohol and must track their volumes over time. Manually taking these measurements is a time consuming and inefficient process.

Solution
a set-it-and-forget-it wireless device that takes the place of a traditional silicone bung, calculating the volume in a barrel and uploading it to a web application at user-indicated intervals

The transaction begins at the barrel, where the bung wakes up, takes a reading, and transmits it to the cloud via wifi. The web server saves the reading, converts it to volume and sends back a message to the bung telling it when to wake up next.

The final design included a 3d printed body and a matching acrylic lid.

Through the website, the user can monitor volume readings, comment on spirits and keep track of barrel history.