Keys-Wallet-Phone Memory Aid

I propose to build a memory aid for the most important things when you walk out the door: your keys, wallet, and phone. This will include a basket and/or hooks to hold your belongings, and force transducers or other sensors to track what is being held. The device will be placed near a door, and a distance sensor will monitor when the door opens. If you open the door without taking or leaving your keys, the device will beep to remind you.

Components:

- Force transducers or comparable mechanism to track basket/hook contents
- IR or sonar distance sensor to monitor door opening
- Alarm to indicate forgotten belongings
- One or more buttons to control the alarm
- Arduino or other microcontroller