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Product Idea # 1: **Floor Dryer**

The first problem that I have is, every time my dog gets a drink out of his water bowl, he proceeds to drag a trail of water onto the floor all across the house. My product idea for this is a robot that would detect when there is water on the floor, and go dry those portions of the floor wherever needed. I believe this is viable due to its ease of construction, just needing a moving robot body with an attached sensor that would detect water. It could detect when to start moving by being situated under the water dish, and start following after the dog as soon as it leaves the water dish.

Product Idea # 2: **Fan Temperature Management**

The next problem is that I have my desktop computer situated inside of my bedroom, and it can get very hot, causing the temperature in my room to get to an uncomfortable level. Due to this, I have a ceiling fan and a floor fan in my room, and I want to be able to have them automatically controlled based on the temperature within my room. So, I will design a light switch that could manage the power state of the ceiling fan and floor fan, while also being able to tell the temperature of the room to see if one or both fans is needed to cool the room down. This is viable because of other components already existing within smart home devices that could be combined to help create this device, like automatic light switches that sync to apps to turn them on and off.

Product Idea # 3: **Car Lock Notification**

The final problem occurs when I walk away from my car only to realize that I don’t remember if I locked it or not. This can be solved be creating a product that would stick on the inside of the door, and detect the vibration that occurs from your car door locking. Once locked, it would send a notification to your phone to ensure you knew whether your car was locked or not. I think this is viable because there are already products that exist similar to this where they are used to locate the object with the device on or in it, whereas this will work in reverse by sending the signal back to you for the notification of your car door locking.