

**Object passes  
by system  
and triggers  
PIR sensor**

**Low power  
microcontroller  
enables power**

**High performance  
microcontroller  
boots up and makes  
an image with  
thermal camera**

**Image is  
processed by  
a neural network**

**Result of inference  
is sent to  
the low power  
microcontroller**

**Result is sent over  
radio, low power  
microcontroller  
disables power and  
goes to sleep mode**