**Questions for evaluation**

Do we want a branch lief setup with a smart controller and a dumb one, or do we want an all in one controller?

Are we sending our data to MAHIVE over the LAN or through the internet?

How far can USB go and still have power and communications?

Can we use wireless?

What will we need / what will be provided to test the sent data, encryption, and authentication?

Can we run multiple sensors off one board?(like a door sensor, photomotor, and accelerometer… or even several doors )

**Questions for each platform**

What kind of connection / wire are we going to use to connect to MAHIVE?

What are the devices power requirements?

1. Can it send information in JSON?
2. Can it encrypt the event? (What kind of encryption are we using?)
3. Can it authenticate to the MAHIVE computer using a 2 key system? (Network required?)

What would it take to 3D print an enclosure / mounting system?

* **Arduino (Mega)**

Can we use an Arduino Uno shield on a Mega?

Can we use the Micro SD slot for more memory / storage?

* **Raspberry Pi**

Can we use RJ-45?

* **ESP 32**

What kind of support / documentation does this platform have?

Can we use RJ-45?