

Lit Alert Project post #3 -

1) What does your project do?

- Lit Alert is a temperature monitor to identify and notify a user if the animal wearing the device is experiencing extreme body temps. The device will send an alert to an app. extension on a smartphone when temps are above normal.

2) Who is your project for?

- Device intended specifically for K9 police dogs residing in vehicle in high temp areas. The device can also be utilized by animal/dog owners concerned about their animals body temp.

3) Describe how someone would use the developed device. What are the steps that a user would go through to interface with the technology?

- Lit alert users will outfit their dogs with the Lit Alert vest containing a set of temperature sensors and a microcontroller ensuring the battery included with the device is charged. Download the Lit Alert app, connect the Lit Alert app with the device via the users smartphone. After connection the app will periodically check the body temp of the animal wearing the device and notify the user if the temperature exceeds the set hi limit for the alarm.

4) What makes your project different from existing products?

- There are currently no devices designed specifically to alert a K9 handler of excessive body temps. of the dog. The device will monitor the animals temp through a set of sensors providing fairly accurate temps in real time in the field.

Purchase/Part list-

**Microcontroller - (1x) Adafruit Feather M0 Bluefruit LE[ID:2995] - <https://www.adafruit.com/product/2995>
\$29.95**

**Temp Sensor - (5x) TMP37FT9Z-ND - <https://www.digikey.com/products/en?mpart=TMP37FT9Z&v=505>
\$7.90**

**Dog Vest - (1x) https://www.amazon.com/gp/product/B01JK4Z9VQ/ref=oh_aui_detailpage_o00_s00?ie=UTF8&psc=1
\$30.73**

Updated Timeline -

- **Parts and materials to arrive between 3/12 - 3/17. Communication with individual developing app. to occur in the same timeline for troubleshooting and general discussion. Prototyping and design placement of microcontroller and sensors will occur ASAP when vest arrives.**