



Team 506: Wearable Gas Detector

Team Members:

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Objective:

The objective of this project is to design a wearable gas sensor tailored for CIA search and rescue operations to improve user experience from existing sensors.

Background:

Traditional gas sensors are hand-held and limit the user's ability to carry other necessary items during search and rescue missions. The idea is to create a modular device that can be worn around the person's body in various locations.

Key Goals:



Sense



Notify



Protect

Proposed Solution:

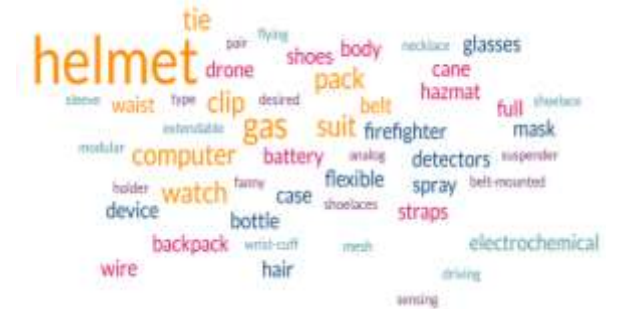
We plan to design and build a modular sensing suite that can be worn by the user in whatever location they prefer. The main component will be a sealed box containing all computational and power components. Sensors will be mounted externally in a user decided location.

Initial Prototype of Sensing Box



Team 505 Integration:

Our sensing box, sponsored by the CIA, will seamlessly integrate with Team 505. The use of a Mil-Spec cable, known for superior durability and resistance to harsh conditions, facilitates easy integration with various wearable ideas from T505.



Future Work:

Develop code structure for how data will be collected and analyzed, design housing for battery and computer, budgeting, and purchasing