

OpenWERX

Jump The Dog:

Canine Oxygen Mask for High Altitude High Opening (HAHO)

OpenWERX Challenge: Guiding Principles

- Open
 - Use Open Source/Open Hardware/Creative Commons building blocks
 - All new development (hardware, electronics, software) must be publicly and freely available under an appropriate Open Source license before judging begins
- Collaborative
 - Build a team
 - Engage the broader open development ecosystem
 - Join the OpenWERX Slack channel:
 - <https://suncoast-devs.slack.com/messages/openwerx/>

OpenWERX Challenge: Parameters

- Register To Compete
 - OpenWERX Event Page
 - NLT 21 April 2017
- Present Work
 - Conceptual Technical Design Package (Threshold), Build a prototype (Stretch Goal 2)
 - 1 June
 - 5-10 minutes per team
- Judging/Awards
 - Immediately following demonstrations
 - Cash prizes: \$3k (1st place), \$2k (2nd place), \$1k (3rd place)

OpenWERX Challenge: Design/Prototype A Canine Oxygen Mask



Specifics

- Goal 1: Physical Design
 - A design that illustrates the approach to true air seal, comfort, and ease of employment
 - Three sizes: small, medium, large
- Goal 2: Non-Functional Prototype
 - Demonstrate the true air seal on a canine model

Additional Information and Constraints

- HAHO: 15,000 – 35,000 feet
- System must be capable of providing 100% oxygen on demand

References

- Canine Model: <https://www.amazon.com/Melissa-Doug-Giant-German-Shepherd/dp/B0006IRT78>

Questions?

- Event: keri.cline@sofwerx.org
- Challenge (technical): cameron.hunt@sofwerx.org