

# OpenWERX

Jump The Dog:

Canine Oxygen Mask for High Altitude High Opening (HAHO)

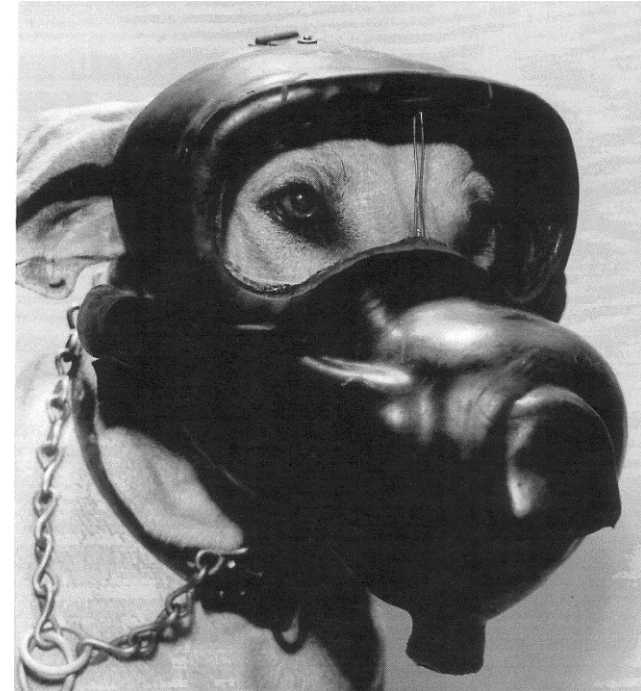
# OpenWERX Challenge: Guiding Principles

- 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: \$6k (1st place), \$4k (2nd place), \$2k (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](mailto:keri.cline@sofwerx.org)
- Challenge (technical): [cameron.hunt@sofwerx.org](mailto:cameron.hunt@sofwerx.org)