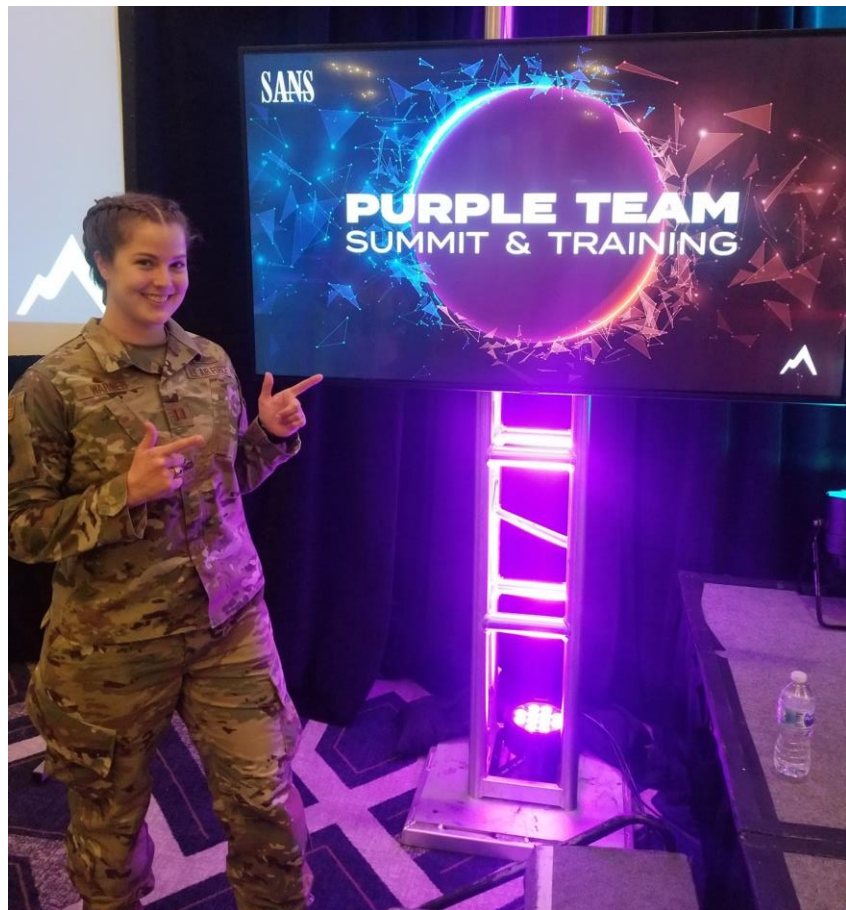




Hero Hackers

How you can use your
offensive skills to help the
Air Force





Capt Lillian B. Warner, USAF

**2016 - Air Education and Training
Command**

2017 - AF Space Command

2018 - Air Combat Command

2020 - AF Materiel Command



**The views expressed are those of the
author and do not necessarily reflect the
official policy or position of the Air Force,
the Department of Defense or the U.S.
Government**

Agenda



Hackthe<InsertOrgHere>



Get \$\$\$ – SBIR/SBTT



Big Problems and Big Ideas – AFWERX & AF Cyberworx



#AgileAF – Software Development



Hackthe<InsertOrgHere>

DoD Vulnerability Disclosure Program

“Any public-facing website owned, operated, or controlled by DoD, including web applications hosted on those sites”

Restrictions

China, Russia, Iran, North Korea





U.S. Dept Of Defense

<https://www.dc3.mil/vulnerability-disclosure> · @DC3VDP

Reports resolved
7433

Assets in scope
-

[Submit report](#)

Vulnerability Disclosure
Program

Launched on Nov 2016

[Policy](#) [Hacktivity](#) [Thanks](#) [Updates \(0\)](#)

Policy

DoD Vulnerability Disclosure Policy

Purpose

This policy is intended to give security researchers clear guidelines for conducting vulnerability discovery activities directed at Department of Defense (DoD) web properties, and submitting discovered vulnerabilities to DoD.

Overview

Maintaining the security of our networks is a high priority at the DoD. Our information technologies provide critical services to Military Service members, their families, and DoD employees and contractors. Ultimately, our network security ensures

Response Efficiency

about 1 day

Average time to triage

● **100% of reports**

Meet [response standards](#)

Based on last 90 days





**AEROSPACE
VILLAGE**

SBIR/SBTT

Doing Business at the Speed of Startups

- \$50K for 3mo.
- Small Business Innovation Research
 - Phase I: Air Force customer discovery
 - Phase II: Trial your solution with AF customers
 - Phase III: Unrestricted Sole-Source Government Procurement
- 5G, ML/AI, Autonomy, Biotechnology, Cybersecurity, Directed Energy, Hypersonics, Networked C3, Nuclear, Quantum Science, Space

SBIR/SBTT

- **SBTT requirements:**
 - **50% American-owned**
 - **Start-up completes 40% of work**
 - **Partner must complete 30% of proposed work**
- **SBIR Requirements**
 - **50% American-owned, <500 Employees**

AF Cyberworx

**Co-designing solutions for warfighter's
problem**

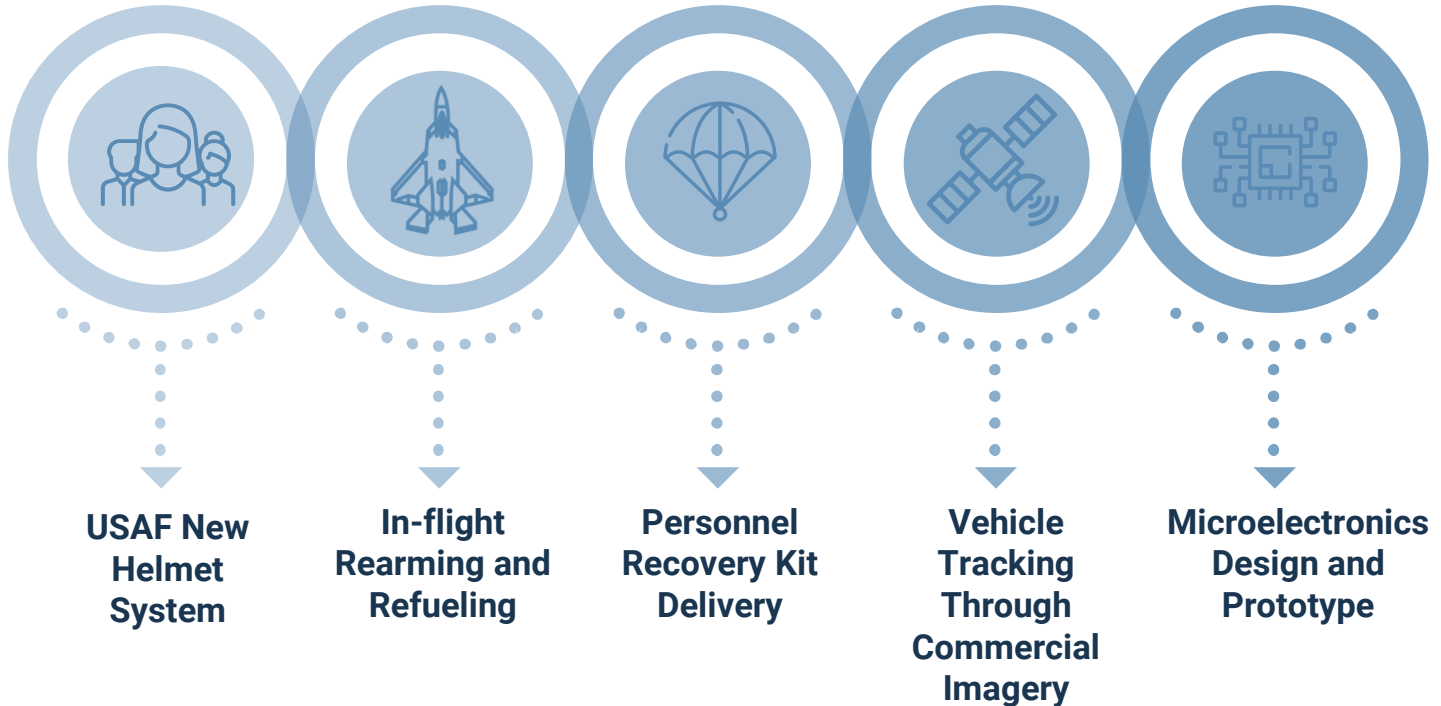
Military & Government

Business & Industry

Innovators & Academics



AFWERX - Past Challenges



Software Development

PlatformOne by LevelUP – Texas

BESPIN

Alabama

Kessel Run

Massachusetts

Kobayashi Maru

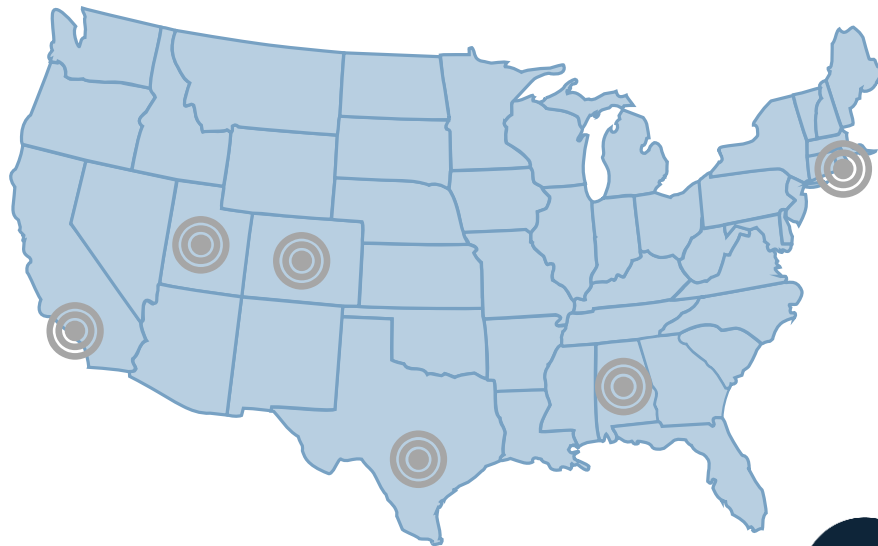
California

Space Camp

Colorado

SkiCamp

Utah



BESPIN

- **Airmen Against Drunk Driving**
- **Whats Up App**
- **Wing Feedback App**

“...a collaboration between **internal and private sector developers** that will use DevSecOps to turn **projects into new resolutions** that will ultimately support the Department of Defense”





KESSELRUN

#agileAF

CONTINUOUSLY DELIVERING

WAR-WINNING
SOFTWARE OUR AIRMEN **LOVE**

CODE. DEPLOY. WIN.





“

Deliver combat capability that
can sense & respond to conflict
in any domain, any time,
anywhere.





Space Command and Control

Mission applications to enable
responsive, resilient operational-level
space C2 capabilities



Posted by u/

45



So apparently the Space Force is just randomly naming after stuff from Star Trek



7 points · 7 days ago



Why the would you name something Kobayashi Maru? Do they not know what happened to the Kobayashi Maru?



Reply



Give Award



Share



Report



Save

Software Factories

SkiCamp

- Continuous development and deployment of Hill AFB mission applications to the warfighter

SoniKube

- Modernize teams approach for web-application development
- Air Force Sustainment Center / Software Engineering Groups

SpaceCAMP

- Platform & application development shop of Kobayashi Maru
- Deliver new capabilities to NSDC & broader space community

PlatformOne by LevelUp

- Provides DevSecOps managed services to AF & DoD
- CNCF-compliant Kubernetes stack
- CI/CD pipeline with c-ATO



Conclusion

Hacker -> HackerOne

Small Business -> SBIR/SBTT

Anyone -> AFWERX & AFCyberworx

Developer -> Software Development



Thanks.





Code. Deploy. Win.

@blackburn_lilly

Join the Alliance!

<https://kesselrun.af.mil>