

# Capability Statement

Building great solutions for automotive cybersecurity to keep vehicles safe.

## Core Services

### Vehicle Cybersecurity Labs

Our team tests and reviews hardware, software, people and processes to understand the security posture of a system. Then, we provide recommendations and implementations to remediate the problems.

- Vehicle, System, and Component Penetration Testing
- Vehicle, System, and Component Fuzzing
- Verification & Validation-as-a-Service (VaaS)
- Vehicle Cybersecurity Lab Buildout
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### Vehicle Security Operations

Block Harbor specializes in monitoring systems for vulnerabilities and breaches using continuous penetration tests, fuzzing, and implemented vulnerability management. In addition, our agile methodologies fit into the development and operations pipeline for our customers.

- Security Operations Center
- Fuzzing
- DevSecOps/Vulnerability Management
- Security Policy Framework

### Vehicle Cybersecurity Consulting

We're experts at solving new, hard cybersecurity problems. We can help companies develop custom solutions such as secure architecture & design, cybersecurity training, research, dedicated Security Operation Centers, and secure software development.

- SOC Implementation
- Cybersecurity Research
- ISO/SAE 21434 Consulting

## Key Successes

### Clients

Successfully implemented 24/7 cloud-based security operations center to keep drivers safe from threat actors incl. nation state.

Designed a custom framework for testing security protections of complex systems with hardware and cloud-based web applications.

Helped companies achieve compliance and certifications ranging from GDPR to UL2900.

Designed security architecture for a cloud-based OEM remote automotive diagnostics system, from embedded device security to securing intrusive diagnostics in transit.

Coordinate with a diverse range of client teams to conduct oversight of the vulnerability management cycle from detection to remediation.

Act as integrated security team for suppliers to address OEM automaker cybersecurity requirements in component development, including regular penetration testing.

Single-source supplier for consistent, holistic security assessments/penetration tests and other ISO/SAE 21434 services for several major automotive companies.

### Labs

Prototyping a cloud-based solution to enable remote vehicle penetration testing via crowd-sourced security testing to observe behavior of threats for future integration into automotive intrusion detection.

Prototyping security testing tool to facilitate end-to-end automated cybersecurity requirement verification for ISO/SAE 21434 and UNECE WP.29 UNR 155/156

Placed first place in 2019 Car Hacking Village Capture the Flag (CTF) at DEF CON in Las Vegas.

## Specialties

### Automotive

We've spent years looking at hard problems in automotive, diagnostics, protocols, and tools. Our experience and strong knowledge in the space allows us to work on sophisticated vehicle cyber-architecture projects quickly and effectively.

### Embedded

From vehicle ECUs to internet-connected thermostats, our experience and toolkit allows us to take on challenging hardware engagements.

### Cloud

From setting up to securing, Block Harbor has a wide range of experience working with the infrastructures, systems, and languages that make up today's cloud architectures.

## Differentiators

**Cyber-physical:** Due to our range of engagements, we've developed a mindset for how cyber integration can effect physical devices and cause real world consequences such as loss of life.

**Supply Chain Knowledge:** Our start in the automotive supply chain has taught us the unique needs and constraints of working within an enterprise supply chain as well as working with synergy alongside other companies.

**Access to experts:** If we don't have the expertise you require in house our team's deep integration within the industry has given us a short list of some of the best the industry has to offer.

**Attention to Detail:** We're a small boutique team that is able to take on each client engagement with our full attention.

**Communication:** Communication and continuous reporting is built into the core of all of our services to ensure the customer is always aware of their projects status.

## Company Profile

Established in 2014 in the wake of highly publicized automotive exploits, Block Harbor is a team of experts that united to provide security solutions where the cyber and physical worlds intersect: connected vehicles. Based in Detroit, Michigan, Block Harbor has spent years working on projects with major automotive companies and lofty security requirements. The team has a history of excelling in securing life-critical systems. It's our vision to bring our unique cyber-physical motivation and experience securing modern technologies to help build a world where code and people can coexist safely.

Est. 2014  
Headquarters:  
Detroit, MI  
DUNS: 058381535  
CAGE: 86k36  
NAICS: 518210  
541380 541511  
541512 541513  
541519 541611  
541690 561621

**Block  
Harbor.**  
Cybersecurity

Contactus@blockharbor.io  
313.246.1860  
19 Clifford St, Detroit, MI  
48226