Hyungsub Kim

Assistant Professor

Department of Computer Science

Indiana University, Bloomington, IN, USA

Research Interests

I am a system security researcher. I develop program analysis and formal method techniques to tackle security threats in systems. My research is best represented by my extensive work on robotic vehicles (RVs). I was working on automatically finding logic bugs, patching them, and verifying the patches in RV control software. In addition, I was uncovering the root causes and formulating countermeasures against physical sensor attacks that target RVs. Currently, my efforts are dedicated to developing formal methods to address cyber and physical attacks against various cyber-physical systems, including satellites, autonomous vehicles, and industrial control systems.

Education

- 2018–2023 PhD in Computer Science, Purdue University, IN, USA.
 - Thesis: "Defeating Cyber and Physical Attacks in Robotic Vehicles" [PDF]
 - o Advisors: Professor Dongyan Xu, Antonio Bianchi, Z. Berkay Celik
- 2013–2015 M.S. in Computer Science and Engineering, POSTECH, Pohang, South Korea.
 - o Thesis: "Privacy Threats in HTML5 Geolocation API: Case Studies and Countermeasures" [PDF]
 - o Advisor: Professor Jong Kim
- 2011–2013 B.S. in School of Computer Science, University of Seoul, Seoul, South Korea.

Employment History

Aug. 2024 – **Assistant Professor**, **Indiana University**, Bloomington, Indiana, USA. present

Jan. 2024 - Postdoctoral Researcher, Purdue University, West Lafayette, Indiana, USA.

2015–2018 Researcher, 3rd R&D Institute (Intelligence, Surveillance and Reconnaissance), Agency for Defense Development (ADD), DaeJeon, South Korea.

2007–2009 **Auxiliary Policeman**, *Gwangju Seobu Police Station*, **Gwangju Metropolitan Police Agency**, Gwangju, South Korea.

Mandatory military service

Publications

Jul. 2024

★ First-author publications in top security conferences [4]: (1) S&P'24, (2) USENIX Security'23, (3) S&P'22, (4) NDSS'21

Conference Papers

[1] Automated Discovery of Semantic Attacks in Multi-Robot Navigation Systems [PDF]

Doguhan Yeke, Kartik Anand Pant, Muslum Ozgur Ozmen, <u>Hyungsub Kim</u>, James Goppert, Inseok Hwang, Antonio Bianchi, Z. Berkay Celik

In the Proceedings of the 34th USENIX Security Symposium (**USENIX Security 2025**), Seattle, Washington, USA, August 13-15, 2025.

(acceptance rate: 407/2385=17.06%)

[2] Intent-aware Fuzzing for Android Hardened Application [PDF]

Seongyun Jeong, Minseong Choi, Haehyun Cho, Seokwoo Choi, <u>Hyungsub Kim</u>, Yuseok Jeon In the Proceedings of the 32nd ACM Conference on Computer and Communications Security (**CCS 2025**), Taipei, Taiwan, October 13-17, 2025. (acceptance rate: TBA)

[3] \star A Systematic Study of Physical Sensor Attack Hardness [PDF]

Hyungsub Kim, Rwitam Bandyopadhyay, Muslum Ozgur Ozmen, Z. Berkay Celik, Antonio Bianchi, Yongdae Kim, Dongyan Xu

In the Proceedings of the 45th IEEE Symposium on Security and Privacy (**S&P 2024**), San Francisco, California, USA, May 20-23, 2024.

(acceptance rate: 261/1463=17.8%)

[4] Discovering Adversarial Driving Maneuvers against Autonomous Vehicles [PDF] [Slide]

Ruoyu Song, Muslum Ozgur Ozmen, <u>Hyungsub Kim</u>, Raymond Muller, Z. Berkay Celik, Antonio Bianchi In the Proceedings of the 32nd USENIX Security Symposium (**USENIX Security 2023**), Anaheim, California, USA, August 9-11, 2023.

(acceptance rate: 442/1444=29.2%)

[5] \star PatchVerif: Discovering Faulty Patches in Robotic Vehicles [PDF] [Slide]

Hyungsub Kim, Muslum Ozgur Ozmen, Z. Berkay Celik, Antonio Bianchi, Dongyan Xu In the Proceedings of the 32nd USENIX Security Symposium (**USENIX Security 2023**), Anaheim, California, USA, August 9-11, 2023.

(acceptance rate: 442/1444=29.2%)

[6] \star PGPATCH: Policy-Guided Logic Bug Patching for Robotic Vehicles [PDF] [Slide]

Hyungsub Kim, Muslum Ozgur Ozmen, Z. Berkay Celik, Antonio Bianchi, Dongyan Xu In the Proceedings of the 43rd IEEE Symposium on Security and Privacy (**S&P 2022**), San Francisco, California, USA, May 23-26, 2022.

(acceptance rate: 147/1012=14.5%)

[7] M2MON: Building an MMIO-based Security Reference Monitor for Unmanned Vehicles [PDF] [Slide] Arslan Khan, Hyungsub Kim, Byoungyoung Lee, Dongyan Xu, Antonio Bianchi, Dave (Jing) Tian In the Proceedings of the 30th USENIX Security Symposium (USENIX Security 2021), Vancouver, British Columbia, Canada, August 11-13, 2021. (acceptance rate: 246/1316=18.7%)

[8]

PGFUZZ: Policy-Guided Fuzzing for Robotic Vehicles [PDF] [Slide]

Hyungsub Kim, Muslum Ozgur Ozmen, Antonio Bianchi, Z. Berkay Celik, Dongyan Xu In the Proceedings of the 28th Network and Distributed System Security Symposium (**NDSS 2021**), San Diego, California, USA, February 21-24, 2021. (acceptance rate: 87/573=15.2%)

[9] Inferring Browser Activity and Status Through Remote Monitoring of Storage Usage [PDF] [Slide] Hyungsub Kim, Sangho Lee, and Jong Kim

In the Proceedings of the 32nd Annual Computer Security Applications Conference (**ACSAC 2016**), Los Angeles, California, USA, December 5-9, 2016. (acceptance rate: 48/210=22.8%)

[10] Identifying Cross-origin Resource Status Using Application Cache [PDF] [Slide]

Sangho Lee, Hyungsub Kim, and Jong Kim

In the Proceedings of the 22nd Network and Distributed System Security Symposium (**NDSS 2015**), San Diego, California, USA, February 8-11, 2015. (acceptance rate: 50/302=16.6%)

[11] Exploring and mitigating privacy threats of HTML5 geolocation API [PDF] [Slide]

Hyungsub Kim, Sangho Lee, and Jong Kim

In the Proceedings of the 30th Annual Computer Security Applications Conference (ACSAC 2014), New Orleans, Louisiana, USA, December 8-12, 2014.

(acceptance rate: 47/236=19.9%)

Short Paper

[1] Short: Rethinking Secure Pairing in Drone Swarms [PDF]

Muslum Ozgur Ozmen, Habiba Farrukh, **Hyungsub Kim**, Antonio Bianchi, Z. Berkay Celik In the Proceedings of the Inaugural ISOC Symposium on Vehicle Security and Privacy (**VehicleSec 2023**), San Diego, California, USA, February 27, 2023.

Workshop/Demo/Poster Papers

[1] Poster: A Multi-Agent Framework for Formal Specification of Robotic Vehicle Control Software [PDF]

Chaoqi Zhang, Hyungsub Kim

The 3rd USENIX Symposium on Vehicle Security and Privacy (VehicleSec 2025), Seattle, Washington, USA, August 11, 2025.

- [2] Demo: Discovering Faulty Patches in Robotic Vehicle Control Software [PDF] Hyungsub Kim, Muslum Ozgur Ozmen, Z. Berkay Celik, Antonio Bianchi, Dongyan Xu In the Proceedings of the Inaugural ISOC Symposium on Vehicle Security and Privacy (VehicleSec 2023), San Diego, California, USA, February 27, 2023.
- [3] Demo: Policy-based Discovery and Patching of Logic Bugs in Robotic Vehicles [PDF]

 Hyungsub Kim, Muslum Ozgur Ozmen, Antonio Bianchi, Z. Berkay Celik, Dongyan Xu

 In the Proceedings of the 4th International Workshop on Automotive and Autonomous Vehicle Security (AutoSec 2022), San Diego, California, USA, April 24, 2022.

Dissertation/Thesis

- [1] **Defeating Cyber and Physical Attacks in Robotic Vehicles** [PDF] PhD dissertation, Department of Computer Science, Purdue University, 2023.
- [2] Privacy Threats in HTML5 Geolocation API: Case Studies and Countermeasures [PDF] Master's Thesis, Department of Computer Science and Engineering, POSTECH, 2015.

Interdisciplinary Work

[1] Community-based death preparation and education: A scoping review [PDF]
Sungwon Park, Hyungkyung Kim, Min Kyeong Jang, Hyungsub Kim, Rebecca Raszewski & Ardith Z. Doorenbos Death Studies, March 11, 2022.

Grants

2024-2025 DARPA - Faithful Integration and Reverse-engineering and Emulation (FIRE),

Subcontract from Purdue University,

Indiana University share: \$100,000, percentage under my control: 100%

Talks

- [1] Generic Large Language Model (GLLM) in Cybersecurity, as a Panelist at CAE Cybersecurity Community Symposium, Charleston, South Carolina, USA, April 8, 2025, [Link].
- [2] **Simulating Cyber-Physical Vulnerabilities**, DARPA Faithful Integration and Reverse-engineering and Emulation (FIRE) Quarterly Review, Philadelphia, Pennsylvania, USA, March 19, 2025.
- [3] Modeling and Simulating Cyber-Physical Vulnerabilities, DARPA Faithful Integration and Reverse-engineering and Emulation (FIRE) Workshop 3, Philadelphia, Pennsylvania, USA, March 17-18, 2025.
- [4] Modeling and Simulating Cyber-Physical Vulnerabilities, DARPA Faithful Integration and Reverse-engineering and Emulation (FIRE) Workshop 2, Orlando, Florida, USA, January 22-23, 2025.

- [5] **Software Supply Chain Security**, as a Panelist at CAE Special Topics Workshop on Software Supply Chain Security, St. Louis, Missouri, USA, October 9, 2024.
- [6] Sensor Modeling and Physical Sensor Attack Simulations, DARPA Faithful Integration and Reverseengineering and Emulation (FIRE) Quarterly Review, Melbourne, Florida, USA, September 17, 2024.
- [7] Defeating Cyber and Physical Attacks in Robotic Vehicles,

Sejong University, Seoul, Korea, August 29, 2024

National Security Research Institute, Daejeon, Korea, July 5, 2024

KAIST, Daejeon, Korea, July 4, 2024

POSTECH, Pohang, Korea, July 3, 2024

Korea University, Seoul, Korea, July 2, 2024

Agency for Defense Development, Daejeon, Korea, June 24, 2024

UNIST, Ulsan, Korea, April 1, 2024

Indiana University Bloomington, Indiana, USA, March 26, 2024

Arizona State University, Tempe, Arizona, USA, March 1, 2024

Georgia State University, Atlanta, Georgia, USA, February 8, 2024

University of Maryland, College Park, Maryland, USA, January 30, 2024

CISPA Helmholtz Center for Information Security, Saarbrücken, Germany, January 23, 2024

New Jersey Institute of Technology, Newark, NJ, USA, January 19, 2024

University of California, Santa Barbara, California, USA, January 16, 2024

University of Florida, Gainesville, FL, USA, January 10, 2024

Washington University in St. Louis, Missouri, USA, December 15, 2023

University of Illinois at Urbana-Champaign, Illinois, USA, December 1, 2023

Purdue University, Indiana, USA, November 28, 2023 (PhD dissertation defense)

Indiana University Bloomington, Indiana, USA, November 17, 2023

Georgia Institute of Technology, Atlanta, Georgia, USA, October 18, 2023.

- [8] **Cyber-physical Vulnerability Analysis**, DARPA Faithful Integration and Reverse-engineering and Emulation (FIRE) Quarterly Review, Tempe, Arizona, USA, May 29, 2024.
- [9] A Systematic Study of Physical Sensor Attack Hardness, 45th IEEE Symposium on Security and Privacy (S&P 2024), San Francisco, California, USA, May 21, 2024.
- [10] PatchVerif: Discovering Faulty Patches in Robotic Vehicles, 32nd USENIX Security Symposium, Anaheim, California, USA, August 10, 2023.
- [11] Defeating Logic Bugs in Robotic Vehicles,

POSTECH, Pohang, Korea, June 1, 2023

UNIST, Ulsan, Korea, May 31, 2023

Ohio State University, Columbus, Ohio, USA, February 17, 2023

Purdue University, West Lafayette, Indiana, USA, November 18, 2022 (preliminary examination)

New York University Abu Dhabi, UAE, November 10, 2022.

- [12] Logic Bug-Finding and Patching Tools, 2nd Technology Innovation Institute (TII) Annual SSRC Research Partners Summit, Abu Dhabi, UAE, November 8, 2022.
- [13] **PGPATCH: Policy-Guided Logic Bug Patching for Robotic Vehicles**, 43rd IEEE Symposium on Security and Privacy (S&P), San Francisco, California, USA, May 25, 2022.
- [14] **PGFUZZ: Policy-Guided Fuzzing for Robotic Vehicles**, 28th Network and Distributed System Security Symposium (NDSS), San Diego, California, USA, February 24, 2021.
- [15] Inferring Browser Activity and Status Through Remote Monitoring of Storage Usage, 32nd Annual Computer Security Applications Conference (ACSAC), Los Angeles, California, USA, December 8, 2016.
- [16] Exploring and Mitigating Privacy Threats of HTML5 Geolocation API, 30th Annual Computer Security Applications Conference (ACSAC), New Orleans, Louisiana, USA, December 11, 2014.
- [17] I Know the Shortened URLs You Clicked on Twitter: Inference Attack using Public Click Analytics and Twitter Metadata, Workshop among Asian Information Security Labs (WAIS), Shanghai, China, Jan 10, 2014.

Fellowships, Awards, and Honors

- ☆ Distinguished Reviewer Award, ISOC Network and Distributed System Security Symposium (NDSS) 2025.
- ☆ Outstanding Reviewer Award, ISOC Symposium on Vehicle Security and Privacy (VehicleSec) 2024.
- Noteworthy Reviewer, International Symposium on Research in Attacks, Intrusions and Defenses (RAID) 2023. [Link]
- CPS Rising Stars, CPS-VO@National Science Foundation (NSF) 2023. [Link]
- Outstanding Reviewer Award, ISOC Symposium on Vehicle Security and Privacy (VehicleSec) 2023.

IEEE S&P Student Travel Grant (US\$1,300), San Francisco, California, USA, May, 2022.

CCS Student Conference Grant, Virtual Conference, November, 2021.

Ross Fellowship, Purdue University Graduate School, 2018.

ACSAC Student Conferenceship Award (US\$1,200), New Orleans, Louisiana, USA, December, 2014.

Best Student Presentation Award, POSTECH CSE Student Workshop, 2014.

Semester High Honors, 2011 and 2012 2nd semester, University of Seoul.

Semester High Honors, 2007 2nd semester, Chonnam National University.

Ministry of Commerce, Industry and Energy grand prize (US\$2,600), high school competitions in the field of computer science, 2004.

Professional Services

Organizing Committee

- 2026 ISOC Network and Distributed System Security Symposium (NDSS), Publication Chair [Link]
- 2026 USENIX Vehicle Security and Privacy (VehicleSec), General Chair
- 2025 ISOC Network and Distributed System Security Symposium (NDSS), Publication Chair [Link]
- 2025 USENIX Vehicle Security and Privacy (VehicleSec), Publicity Chair [Link]
- 2025 Midwest Security Workshop (MSW), Organizing Chair [Link]
- 2024 ISOC Symposium on Vehicle Security and Privacy (VehicleSec), Travel Grant Chair [Link]
- 2024 Midwest Security Workshop (MSW), Organizing Committee [Link]
- 2023 ISOC Symposium on Vehicle Security and Privacy (VehicleSec), Travel Grant Chair [Link]

Program Committee (PC)

- 2026 IEEE Symposium on Security and Privacy (S&P)
- 2026 ACM Conference on Computer and Communications Security (CCS)
- 2026 Network and Distributed System Security Symposium (NDSS)
- 2025 IEEE Symposium on Security and Privacy (S&P)
- 2025 Network and Distributed System Security Symposium (NDSS)
- 2025 Annual Computer Security Applications Conference (ACSAC)
- 2025 International Symposium on Research in Attacks, Intrusions and Defenses (RAID)
- 2025 IEEE European Symposium on Security and Privacy (EuroS&P)
- 2025 ISOC Workshop on Security and Privacy in Standardized IoT (SDIoTSec)
- 2024 International Symposium on Research in Attacks, Intrusions and Defenses (RAID)
- 2024 IEEE European Symposium on Security and Privacy (EuroS&P)
- 2024 ACM ASIA Conference on Computer and Communications Security (ASIACCS)

2024	International Conference on Applied Cryptography and Network Security (ACNS) ISOC Symposium on Vehicle Security and Privacy (VehicleSec)
2024	IEEE/ACM Workshop on the Internet of Safe Things (SafeThings)
2023 2023 2023 2023 2023	European Symposium on Research in Computer Security (ESORICS) International Symposium on Research in Attacks, Intrusions and Defenses (RAID) ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec) ISOC Symposium on Vehicle Security and Privacy (VehicleSec) Workshop of Designing Security for the Web (SecWeb)
2023 2023 2023 2023 2023	Artifact Evaluation Committee (AEC) USENIX Security Symposium ACM Conference on Computer and Communications Security (CCS) European Conference on Computer Systems (EuroSys) ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec) USENIX Workshop on Offensive Technologies (WOOT)
2022 2022	USENIX Security Symposium Annual Computer Security Applications Conference (ACSAC)
2024 2023 2023	Journal Reviewer IEEE Transactions on Information Forensics and Security (T-IFS) IEEE Transactions on Dependable and Secure Computing (TDSC) IEEE Transactions on Information Forensics and Security (T-IFS)
2024 2024	Sub-reviewer/External Reviewer IEEE Symposium on Security and Privacy (S&P) Network and Distributed System Security Symposium (NDSS)
2023 2023 2023	USENIX Security Symposium Network and Distributed System Security Symposium (NDSS) Security and Privacy in Communication Networks (SecureComm)
2022 2022 2022 2022 2022	IEEE Symposium on Security and Privacy (S&P) USENIX Security Symposium Network and Distributed System Security Symposium (NDSS) ACM ASIA Conference on Computer and Communications Security (ASIACCS) Workshop on Automotive and Autonomous Vehicle Security (AutoSec)
2021 2021 2021 2021 2021	IEEE Symposium on Security and Privacy (S&P) Network and Distributed System Security Symposium (NDSS) Annual Computer Security Applications Conference (ACSAC) ACM ASIA Conference on Computer and Communications Security (ASIACCS) European Symposium on Research in Computer Security (ESORICS)
2020	Dependable Systems and Networks (DSN)

- 2020 Security and Privacy in Communication Networks (SecureComm)
- 2014 World Conference on Information Security Applications (WISA)

Session Chair

- 2025 "Autonomous Vehicle Security" Session, USENIX Symposium on Vehicle Security and Privacy (VehicleSec)
- 2025 "Electromagnetic Attacks" Session, ISOC Network and Distributed System Security Symposium (NDSS)
- 2024 "Side and Covert Channels" Session, IEEE/ACM Workshop on the Internet of Safe Things (SafeThings)
- 2024 "Firewall and IDS" Session, ISOC Symposium on Vehicle Security and Privacy (VehicleSec)
- 2023 "Autonomous Driving Security" Session, ISOC Symposium on Vehicle Security and Privacy (VehicleSec)
- 2022 "Robotic Vehicles Security" Session, Workshop on Automotive and Autonomous Vehicle Security (AutoSec)

Volunteering

- 2014 Participating in the international World Wide Web Conference (WWW) as a volunteer, April, 7-11, Seoul, South Korea.
 - Helped organization and progress of the conference

Student Mentoring

PhD

Fall 2024 - Chaoqi Zhang [Homepage]

Now o PhD student at Indiana University

Project: Security for Robotic Vehicles (ongoing)

Fall 2025 - Rodoshie Reheean [Homepage]

Now • PhD student at Indiana University

Fall 2025 - **Soyeon Lee** [Homepage]

Now o PhD student at Indiana University

Fall 2025 - Abhishek Bisht [Homepage]

Now • PhD student at Indiana University

Master

Spring 2025 Rajay Ravikumar

- Master student at Indiana University
- Project: Security for Robotic Vehicles

Fall 2024 Luke Harris

- Master student at Indiana University
- Project: Breaking Authentications in Vehicles
- Job: Federal Deposit Insurance Corporation (FDIC)

Undergraduate

Fall 2024 Anthony Grego

- Undergraduate student at Indiana University
- Project: Robotic Vehicle Security

Fall 2024 Thomas Goeyardi

- Undergraduate student at Indiana University
- Project: Robotic Vehicle Security

Fall 2024 Maryanne McGlone

- Undergraduate student at Indiana University
- Project: Autonomous Vehicle Security

Research Intern

Spring 2025 - **Insup Lee** [Homepage]

- Now Research Intern
 - Student at Korea University

Spring 2025 - Ho-Jin Choi

Now • Research Intern

Student at Sogang University

Spring 2025 - Ho Jun Lee

- Now Research Intern
 - Student at Purdue University

Spring 2025 Md Rayhanul Islam

- Research Intern
- Student at University of Connecticut

Spring 2025 **Jewook Park**

- Research Intern
- Student at Georgia Tech

At Purdue University

Fall 2021 - Ruoyu Song

Spring 2024 • Ph.D. student at Purdue University

o Project: Discovering Adversarial Driving Maneuvers against Autonomous Vehicles (paper published at USENIX Security'23 [PDF])

Fall 2022 - Rwitam Bandyopadhyay

Spring 2023 • Master student at Purdue University

- Current employment: Amazon
- Project: A Systematic Study of Physical Sensor Attack Hardness (paper published at IEEE S&P'24 [PDF])

Fall 2023 - Faaiz Masood Memon

- Spring 2024 Undergraduate student at Purdue University
 - Project: Drone fail-safe algorithms

Teaching

Lecturer

2025 Fall Topics in Systems: Cyber-Physical Systems Security (CSCI-B 649), Indiana University, Bloomington, IN, USA [Syllabus] [Number of students: 6]

- 2025 Spring Systems and Protocol Security and Information Assurance (CSCI-B 547 & INFO-I 533), In-Person Class, Indiana University, Bloomington, IN, USA [Syllabus] [Number of students: 7]
- 2025 Spring Systems and Protocol Security and Information Assurance (CSCI-B 547 & INFO-I 533), Online Class, Indiana University, Bloomington, IN, USA [Number of students: 57]
 - 2024 Fall **Security for Networked Systems** (CSCI-B 544 & INFO-I 520), Indiana University, Bloomington, IN, USA [Syllabus] [Number of students: 17]

Guest Lecturer

- 2023 Fall Topic: Defeating Logic bugs in Robotic Vehicles, Software Security (CS 490) Purdue University, West Lafayette, IN, USA [Slide]
- 2022 Fall Topic: Static Analysis, Software Security (CS 490) Purdue University, West Lafayette, IN, USA [Slide]
- 2022 Spring Topic: Program Analysis for IoT/CPS (Dynamic, Static Analysis, and Symbolic Execution), IoT/CPS Security (CS 590) Purdue University, West Lafayette, IN, USA [Slide]

Teaching Assistant (TA)

- 2019 Fall **Teaching assistant** Problem Solving And Object-Oriented Programming (CS180) and Data Structures And Algorithms (CS251), Purdue University, West Lafayette, IN, the USA.
 - Assignment and project development.
- 2014 Fall Teaching assistant Software Design Methods (CSED332), POSTECH, Pohang, South Korea.
 - Planned, teached, and graded course term project assignments about implementing a database-management system (DBMS).

University Activities

PhD Qualifying Exam Committee

Spring 2025 - Hassan Jardali

Now o PhD student in the Department of Intelligent Systems Engineering at Indiana University

PhD Research Committee

Spring 2025 - Anesu Chaora

Now O Director of IT at Indiana University

Engagement, Diversity, and Outreach Activities

Services for College

- 2025 Research presentation for undergraduate students, Luddy Graduate Admissions Coffee & Conversations, April 3, Indiana University, Bloomington, Indiana, USA.
- 2024 Now Hosting the Cybersecurity Reading Group at the Luddy School, Indiana University, Bloomington, Indiana, USA.
 - 2024 Research presentation for incoming undergraduate researchers, Luddy Student Research Fair, August 27, Indiana University, Bloomington, Indiana, USA.

Services for Department

- 2024-2025 Graduate education committee, Indiana University, Bloomington, Indiana, USA.
- 2024-2025 Master student admission committee, Indiana University, Bloomington, Indiana, USA.
 - 2023 "Discovering Faulty Patches in Robotic Vehicles", Prospective PhD Visit Day Poster Session, March 23, Purdue University, West Lafayette, Indiana, USA.

Reported Vulnerabilities

- August, 2023 115 bugs in ArduPilot and PX4, discovered by PatchVerif, [Link].
- February, 2021 207 bugs in ArduPilot, PX4, and Paparazzi, discovered by PGFuzz, [Link].
- March, 2020 ArduPilot Bug #13815, Checking min/max angular position of mount, [Link].
- March, 2020 ArduPilot Bug #13811, Drone crash when repeating flip mode, [Link].
 - July, 2018 ArduPilot Bug #8783, NULL pointer dereference, [Link].
- June, 2018 ArduPilot Bug #8644, Memory leak, [Link].
- June, 2018 ArduPilot Bug #8642, Memory leak, [Link].
- June, 2018 ArduPilot Bug #8641, NULL pointer dereference, [Link].
- June, 2018 ArduPilot Bug #8640, Resource leak, [Link].