

IGEM Grant Report

☐ Progress (due Jan. 1)

☐ Annual (due Jul. 31)

☒ (due Aug. 31)

IGEM Grant #23-001

Principal Investigator – Prof. R. A. Borrelli

Submission Date – 2025.11.28

Primary Institution – University of Idaho

Library of Reconfigurable Immersive Attack and Defend Scenarios for Cybersecurity Research and Workforce Development

Section 1: Summary of project and goals

Our project was designed to enhance capacity in the cybersecurity space at the Idaho Falls Center for Higher Education (UIIF) for both the University of Idaho and Idaho State University for multi-disciplined research and workforce training. The Adversary-As-A-Service concept, developed under this IGEN funding is an immersive environment that can integrate real physical processes, full-scale enterprise systems, and Internet-scale cyberattacks on-demand to offer researchers, students, and trainees a controlled live-fire environment like no other currently available. IGEN funding has also supported development of a hybrid virtual and physical environment of enterprise-scale information technology systems and bench-top physical process systems under digital control. Additionally, the cybersecurity degree program at the University of Idaho has seen increased enrollment with several graduate students funded to build these capacities.

Several papers and proposals have been generated as a result of this funding initiative. Of note, follow-on funding was acquired from NIST to generally continue capacity building. The University of Idaho was then able to hire a postdoctorate researcher for the power systems laboratory at the Idaho Falls Center for Higher Education.

Section 2: Summary of project accomplishments and upcoming plans.

- Student activity

1. Increased enrollment at the Idaho Falls Center for Higher Education through IGEN funding.
2. Increased student participation to Cybersecurity courses.

- RADICL

1. Extended RADICL with additional power to support containerized network elements; e.g., routers, switches, vulnerable servers, and malicious hosts.
2. Purchased equipment and extended RADICL with Hardware Security capabilities.
3. Purchased mechatronics trainer station and deployed into laboratory environment.

- Education

1. University of Idaho developed a Hardware Security course for the first time by an Idaho University.
2. Idaho State University student researchers began design of a hands-on industrial networking security proficiency evaluation. The researchers developed a scenario, network diagram, software list, task list, and scoring rubric. This exam will be used as an assessment instrument for students in the ISU industrial cybersecurity program.

3. ISU is working with secondary teachers to deploy curricular materials into high schools. Additionally, the industrial cybersecurity courseware will be moved to an online delivery format. Other plans include proposing a graduate certificate in industrial cybersecurity to the Idaho State Board of Education, deploying motor control trainers in the laboratory, deploying the industrial networking security proficiency assessment, and designing hands-on control systems fundamentals proficiency exam.
- Developed the Agile Emulated Educational Environment for Guided Industrial Security (AE³GIS) platform.
 1. Falcon can now run multi-headed Hydra nodes to operate the AE³GIS platform.
 2. The platform is fully open source (no external licenses).
 3. It is comprised of virtual components that correspond to nodes often seen IT/OT networks (including PLCs and servers) and it is focused on realism.
 4. It is designed to be lightweight; it can be downloaded and hosted on servers of colleges or industries.
 5. If not downloaded, it can be accessed remotely by other educational institutions of Idaho. Demos to ISU, BSU, BYUI, CEI and NIC have already been arranged starting September 2025.
 6. Implemented three scenarios but enables instructors to implement custom scenarios.
 7. Will submit paper by end of 2025 describing the capabilities and advantages of the platform.
 - Adversary-As-A-Service (AAS) methodology
 - (a) Ransomware attack (Wannacry) – Students learn to detect ransomware activity and analyze encryption behavior and propagation patterns.
 - (b) Distributed Denial of Service attack (Mirai) – Students learn to analyze network traffic for DDoS patterns and implement defensive measures such as firewalls and load balancers.
 - (c) Data Exfiltration via Covert Channels (Heartbleed) – Students recognize covert data exfiltration techniques and implement monitoring and alerting for anomalous traffic.
 - New University of Idaho Level-II research center
 1. Supported by 20 faculty across Idaho universities.
 2. Aimed to create formal partnership in eastern Idaho to encourage research and workforce development.
 3. Motivated to form larger collaborations with Universities and industry towards securing larger funding.
 - Idaho Falls Center for Higher Education Power systems laboratory
 1. Expanded relationship with Schweitzer Engineering Laboratories, Westinghouse (now WESCO), Datacast Technologies, and Edge Velocity to integrate their technologies into the laboratory.
 2. Obtained matching funds provided by the university to procure the real-time digital grid simulator.
 3. Further developing a \$330K grant with Schweitzer Engineering Laboratories in collaboration with the University of Idaho Moscow campus focused on power systems communication and control systems.

- Accepted pre-proposal DOE EPSCoR with ISU, and BSU. The project capitalizes on the infrastructure to support industrial metaverse educational scenarios.

Publications

- (1) McBride, S. (2024). "Curricular Guidance: Industrial Cybersecurity Knowledge." 125 pp. Joint publication of: United States Department of Energy, International Society of Automation Global Cybersecurity Alliance, Idaho State University, Idaho National Laboratory. [isagca.org/hubfs/2023 ISA Website Redesigns/ISAGCA/PDFs/Industrial Cybersecurity Knowledge FINAL.pdf](https://isagca.org/hubfs/2023%20ISA%20Website%20Redesigns/ISAGCA/PDFs/Industrial%20Cybersecurity%20Knowledge%20FINAL.pdf)
- (2) S. McBride (2024). "What does an OT Security Professional Need to Know?" Colloquium for Information Systems Security Education (CISSE). [Best Paper Award](#).
- (3) Vedros K., Vakanski A., Kolias C., Forte D. "From Capture-Recapture to No Recapture: Efficient SCAD Even After Software Updates", Annual Computer Security Applications Conference (ACSAC) 2025.
- (4) Tollan B., Kolias, C., Borrelli R.A. "AE³GIS – Agile Emulated Educational Environment for Guided Industrial Security", Future Internet, To Be Submitted.
- (5) Tollan B., Centofante C., Kolias, C., Borrelli R.A. "Adversary in the Loop: Breach and Attack Simulation for Assessing the Defensibility of ICS Networks", Energies, To Be Submitted.

Proposals

- (1) Sean McBride (PI) - Idaho State University, Dakota Roberson (co-PI), R. A. Borrelli (co-PI), Constantinos Kolias (co-PI) - University of Idaho. Industrial Cyber Security Research and Training Laboratory. National Institute of Standards and Technology. \$2,875,000. 2024.08.01 - 2026.07.31. *[noncompetitive]*
- (2) Dakota Roberson (PI) - University of Idaho. Foundational Theories for Inherently Secure Digital Systems. Schweitzer Engineering Laboratories. \$334,157. *Pending new PI. Workslope is approved.*
- (3) Sean McBride (PI) - Idaho State University. Threat Hunting Operational Technology Lab (THROTL) Laboratory Directed Research and Development (LDRD) Collaboration. Idaho National Laboratory. \$72,528.

Section 3: High-level summary of budget expenditures for the period just completed.

- Funding of \$700,000 for FY25 is split between UI and ISU co-PIs to manage (\$300,000 subaward to ISU, \$400,000 allocated to UI.)

Expenditures were in accordance with the HERC IGEM requirements and the University of Idaho Office of Sponsored Programs.

Section 4: Demonstration of economic development/impact.

The new Level-II Center at the University of Idaho will act as an academic catalyst, facilitating collaboration across disciplines in order to pursue larger interdisciplinary awards. The Center will be a hub for the Idaho Falls Center for Higher Education for research, education, and workforce development to cultivate a security-conscious workforce by incorporating research-driven methodologies into educational pathways and offering experiential learning embedded in practical, real world contexts. Idaho Falls will be a regional nexus for innovation and excellence in the protection of critical infrastructure, in alignment with national imperatives and regional economic advancement.

Dr. Sean McBride participates in the Regional Economic Development Initiative (REDI) cybersecurity alliance. The alliance encourages development of the cybersecurity industry in Southeast Idaho by hosting monthly meetings and an annual symposium.

Section 5: Number of faculty and student participants as a result of funding, with a brief description efforts.

- Henok Tadelles (M.S.) - (Graduated, first position at Dell). Helped with the deployment of servers, and HPCs.
- Tolan Berhanu (M.S.) - Helped with the development of the AE³IS platform.
- Chad Centofante (M.S.) - Led efforts related to offering developed resources that mimic adversarial activity, as a service including Breach and Attack Tools.
- Heidi Codling (M.Eng) - College of Eastern Idaho
- 4 Faculty, including 1 Extension Faculty
- 17 total undergraduate and graduate students directly involved in supporting project efforts
- 7 Principal Investigators supported by this grant over the full period.

Over 20 faculty and students from both institutions have been working together on multiple facets of this grant effort: from selection of components and shopping for available new or refurbished equipment, to designing network architecture and cyber-physical systems platforms, working with vendors and contractors, university procurement, and facilities personnel, installing and configuring software, running wiring and connecting gadgets, building up, tearing down, and building up again the various platforms and elements to support our vision.

Section 6: Updated progress on long-term sustainability and description of future expansion.

- The NIST award allows both institutions to continue research and support more students.
- Continuing submission of grant proposals as opportunities arise.
- ISU's College of Technology determined to put the Introduction to Cyber-Physical Systems course on track to be offered remotely, as dual-credit/dual-enrollment, and to become a General Education class.
- ISU intends to offer industrial cybersecurity workforce development training at the Idaho Falls campus in Fall 2026.

We are engaging local industries, such as Kiewit Corporation, to demonstrate capabilities at the Idaho Falls Center for Higher Education and form new collaborations. We intend to generate a sustainable revenue stream to sustain our staff, equipment, software licensing, and other operating expenses with commercialization paths on the horizon. The model for our Idaho Falls facilities and capabilities centers on our engagement with community and industry partners here and across the region.

Section 7: Expenditure Report

University of Idaho

Itemized Expenditures

From 7/1/2022 through 11/20/2025

Grant: UA6244 - ISBOE IGEN HERC: Secure Cyberspace

Index: 855911 - ISBOE IGEN HERC Secure Cyberspace

Fund: 226244 - ISBOE IGEN HERC Secure Cyberspace

Salaries

E4108 Summer Salary

Borrelli, Robert	110	Hours	\$7,747.30
Haney, Michael	168	Hours	\$14,544.35
Kolias, Konstantinos	120	Hours	\$8,049.60
Roberson, Dakota	80	Hours	\$5,175.20

E4109 IA/GA Salary

Makrakis, Georgios	320	Hours	\$7,680.00
Makrakis, Georgios	24	Hours	\$576.00
Williams, Taegan	340	Hours	\$6,939.40

\$50,711.85

Temporary Help

E4135 Temporary Student

Tacke, Jonathan	414	Hours	\$8,565.48
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\$8,565.48

Fringe Benefits

E4280 Faculty CFR Benefit Expense	\$10,769.66
E4282 Student CFR Fringe Expense	\$745.67
E4282 Student CFR Fringe Expense	\$20.74

\$11,536.07

Operating Expenses

E5020 Postage & Mailing

6/21/2023	Z1057581	UPS Shipping and Insurance for SEL	Doc Ref:	\$160.28
8/25/2023	Z1060932	UPS Shipping and Insurance for SEL	Doc Ref:	\$219.95

E5240 R&M Svcs - Technology Infrastructur

1/17/2023	I2272149	Wheeler Electric, Inc.		\$450.00
1/17/2023	I2272121	Wheeler Electric, Inc.		\$1,960.00

E5320 Software/Applications - Individual

12/27/2022	Z1047551	D2L, Ltd. Payment for VMware Academ	Doc Ref:	\$330.00
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E5560 Technology - Supplies

11/9/2022	TC110922	TDX263871 4-Samsung 27" Mntr		\$963.82
2/16/2023	TC021623	TDX278215 Dell dock+34" mntr+ship		\$788.39

E5720 Educational Supplies

4/26/2023	Z1053854	Amazon. Purchase of (3) Refillable	Doc Ref:	\$47.97
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E5724 Research Supplies

8/29/2022	Z1040672	Amazon. Purchase of (1) 6 Pack P To	Doc Ref:	\$19.79
8/29/2022	Z1040672	Amazon. Purchase of (1) Brother P-T	Doc Ref:	\$59.49
8/29/2022	Z1040672	Amazon. Purchase of (12) Wall Contr	Doc Ref:	\$1,101.63
8/29/2022	Z1040672	Amazon. Purchase of (16) SAMSUNG FT	Doc Ref:	\$3,422.72
8/29/2022	Z1040672	Amazon. Purchase of (2) Dell GM069	Doc Ref:	\$119.90
8/29/2022	Z1040672	Amazon. Purchase of (8) Tripp Lite	Doc Ref:	\$338.79
9/28/2022	Z1042127	Amazon. Purchase of (1) 100-000-00	Doc Ref:	\$154.99
9/28/2022	Z1042127	Amazon. Purchase of (1) Belkin Comp	Doc Ref:	\$1,639.64
9/28/2022	Z1042127	Amazon. Purchase of (1) Logitech K4	Doc Ref:	\$26.99
9/28/2022	Z1042127	Amazon. Purchase of (1) Tripp Lite	Doc Ref:	\$63.99
9/28/2022	Z1042127	Newegg. Purchase of (36) DELL 342-3	Doc Ref:	\$1,990.00
9/28/2022	Z1042127	Newegg. Purchase of (4) Dell G803n	Doc Ref:	\$126.12
9/28/2022	Z1042127	Newegg. Purchase of (4) SAMSUNG 870	Doc Ref:	\$386.60
9/28/2022	Z1042127	Newegg. Refund of (36) DELL 342-349	Doc Ref:	(\$1,990.00)
9/28/2022	Z1042127	xByte Technologies. Purchase of (33	Doc Ref:	\$4,656.00
10/4/2022	Z1042503	Amazon. Purchase of (1) HELIFOUNER	Doc Ref:	\$147.89
10/4/2022	Z1042503	Amazon. Purchase of (1) PLC Control	Doc Ref:	\$254.61
10/4/2022	Z1042503	Home Depot. Purchase of (1) MCH SCR	Doc Ref:	\$39.08
10/4/2022	Z1042525	Amazon. Purchase of (2) Tripp Lite	Doc Ref:	\$128.00
10/4/2022	Z1042525	Amazon. Purchase of (3) VIVO Black	Doc Ref:	\$746.05
10/4/2022	Z1042525	Amazon. Purchase of (6) SAMSUNG 32G	Doc Ref:	\$258.18
11/11/2022	Z1045125	Amazon. Purchase of (1) 4 Pack 1.25	Doc Ref:	\$412.53
11/11/2022	Z1045125	Amazon. Purchase of (1) Fiber Patch	Doc Ref:	\$25.99
11/11/2022	Z1045125	Amazon. Purchase of (19) Pipishell	Doc Ref:	\$297.81
11/11/2022	Z1045125	Amazon. Purchase of (3) Tripp Lite	Doc Ref:	\$115.14
12/7/2022	Z1046419	Amazon. Purchase of (1) 8-in-1 Univ	Doc Ref:	\$7.40
12/7/2022	Z1046419	Amazon. Purchase of (1) Arduino UNO	Doc Ref:	\$1,381.37
12/7/2022	Z1046419	Amazon. Purchase of (1) MEAN WELL U	Doc Ref:	\$18.16
12/7/2022	Z1046419	Amazon. Purchase of (1) ODROID XU4	Doc Ref:	\$89.50
12/7/2022	Z1046419	Amazon. Purchase of (1) Orange Pi 3	Doc Ref:	\$58.98
12/7/2022	Z1046419	Amazon. Purchase of (1) Raspberry P	Doc Ref:	\$9.99
12/7/2022	Z1046419	Newegg.com. Purchase of (2) 0DF-007	Doc Ref:	\$134.45
12/7/2022	Z1046419	The Home Depot. Purchase of (3) Hus	Doc Ref:	\$163.14
12/7/2022	Z1046419	The Home Depot. Purchase of The Hom	Doc Ref:	\$153.90
12/7/2022	Z1046419	The Home Depot. Refund for The Home	Doc Ref:	(\$163.14)
12/27/2022	Z1047551	Amazon. Purchase of (1) DIN Rail Mo	Doc Ref:	\$382.68
12/27/2022	Z1047551	Amazon. Purchase of (1) GearIT Cat	Doc Ref:	\$66.01
12/27/2022	Z1047551	Amazon. Purchase of (2) GearIT Cat	Doc Ref:	\$102.54
12/27/2022	Z1047551	Amazon. Purchase of (2) MEAN WELL U	Doc Ref:	\$36.76
12/27/2022	Z1047551	Amazon. Purchase of (2) Mounting Dr	Doc Ref:	\$149.92
12/27/2022	Z1047551	Amazon. Purchase of (3) SAMSUNG 65-	Doc Ref:	\$1,643.97
12/27/2022	Z1047551	Amazon. Purchase of (4) Intel Ether	Doc Ref:	\$508.00
12/27/2022	Z1047551	Amazon. Purchase of (6) DIN Rail Mo	Doc Ref:	\$1,109.70
1/25/2023	Z1048638	Amazon. Purchase of (1) 12V 2A Powe	Doc Ref:	\$23.36
1/25/2023	Z1048638	Amazon. Purchase of (1) 2.5" to 3.5	Doc Ref:	\$6.99
1/25/2023	Z1048638	Amazon. Purchase of (1) Gikfun MTS1	Doc Ref:	\$8.98
1/25/2023	Z1048638	Amazon. Purchase of (2) 5 X 32GB US	Doc Ref:	\$78.94
1/25/2023	Z1048638	Newegg.com. Purchase of 3 Samsung 8	Doc Ref:	\$254.97
2/27/2023	Z1050052	Cisco 2960X Switch Rack kit for IGE	Doc Ref:	\$135.20
2/27/2023	Z1050052	Cisco 3750G Switch Rack kit for IGE	Doc Ref:	\$37.96
2/27/2023	Z1050052	Dual Radio with a router for IGEM P	Doc Ref:	\$725.71
2/27/2023	Z1050052	HDMI Cables and extension cord for	Doc Ref:	\$488.35
2/27/2023	Z1050052	Research Supplies for FY23 HERC-IGE	Doc Ref:	\$551.07
2/27/2023	Z1050052	Supplies for FY HERC-IGEM -- **T	Doc Ref:	\$382.22
2/27/2023	Z1050052	Supplies for the FY23 HERC IGEM Cyb	Doc Ref:	\$39.78
3/7/2023	Z1050805	McMaster-Carr. Purchase of (4) 4706	Doc Ref:	\$600.19
3/16/2023	Z1051394	Research Supplies for Dr. Michael H	Doc Ref:	\$29.37

3/16/2023	Z1051394	Research Supplies for Dr. Michael H	Doc Ref:	\$67.32
3/16/2023	Z1051394	Research Supplies for IGEM-HERC Pro	Doc Ref:	\$20.54
3/20/2023	Q0001346	Amazon Capital Intel EXPI9404PTL PRO/1000 PT		\$228.00
3/21/2023	Q0001355	Amazon Capital ELEGOO Upgraded 37 in 1 Sensor		\$73.96
3/21/2023	Q0001360	Amazon Capital ELEGOO UNO Project Super Starter		\$71.98
3/21/2023	Q0001360	Amazon Capital HCDC RPi GPIO Status LED &		\$18.99
3/21/2023	Q0001360	Amazon Capital Kingston DataTraveler Max Type-A		\$105.49
3/21/2023	Q0001364	Amazon Capital 5V 3A 2.5A 2A 1.5A 1A AC Adapter		\$12.89
3/22/2023	Q0001410	Amazon Capital 90Wh VV09XL Laptop Battery for HP		\$40.74
3/22/2023	Q0001413	Amazon Capital DIN Rail Mount 8 SPDT IoT Power		\$65.00
3/22/2023	Q0001410	Amazon Capital Freenove Ultimate Starter Kit for		\$119.80
3/22/2023	Q0001366	Amazon Capital Libre Computer AML-S905X-CC Le		\$139.00
3/22/2023	Q0001403	Amazon Capital Screw Terminal Block Breakout Board		\$32.00
3/23/2023	Q0001426	Amazon Capital Beagleboard (BeagleBone Rev C)		\$62.99
3/23/2023	Q0001448	Amazon Capital Kingston DataTraveler Max 1TB USB-		\$98.29
3/23/2023	Q0001426	Amazon Capital Libre Computer Board ROC-RK3328-		\$200.00
3/27/2023	Z1052155	Amazon. Purchase of (1) 5pcs Ultras	Doc Ref:	\$9.99
3/27/2023	Z1052155	Amazon. Purchase of (1) 9V 2A Power	Doc Ref:	\$29.97
3/27/2023	Z1052155	Amazon. Purchase of (1) DIN Rail Mo	Doc Ref:	\$129.55
3/27/2023	Z1052155	Amazon. Purchase of (1) RasTech Ras	Doc Ref:	\$11.79
3/27/2023	Z1052155	Amazon. Purchase of (1) Screw Mount	Doc Ref:	\$31.80
3/27/2023	Z1052155	Amazon. Purchase of (1) Songhe Dual	Doc Ref:	\$6.88
3/27/2023	Z1052155	Amazon. Purchase of (2) Arducam 160	Doc Ref:	\$11.18
3/27/2023	Z1052155	Home Depot. Purchase of (4) HEFTY 4	Doc Ref:	\$146.54
3/27/2023	Z1052155	Home Depot. Purchase of Purchase of	Doc Ref:	\$155.33
3/27/2023	Z1052155	Home Depot. Refund for purchase of	Doc Ref:	(\$155.33)
3/30/2023	Q0001737	Amazon Capital DIN Rail Mount Bracket for Raspberry		\$94.95
3/31/2023	Q0001816	Amazon Capital Raspberry Pi Pico RP2040		\$23.90
3/31/2023	Q0001748	Amazon Capital Treedix 2PCS Compatible with		\$31.98
4/1/2023	Q0001865	Amazon Capital ANMBEST 2PCS 4 Channel 5V Relay		\$51.16
4/1/2023	Q0001864	Amazon Capital Arduino UNO REV3 [A000066]		\$139.65
4/1/2023	Q0001858	Amazon Capital Belkin Components USB A/B Device		\$24.75
4/1/2023	Q0001857	Amazon Capital ICI T&G 2 Pieces DIN Rail Slotted		\$189.80
4/1/2023	Q0001864	Amazon Capital SunFounder 7 Inch HD TFT LCD		\$274.95
4/1/2023	Q0001858	Amazon Capital UCTRONICS Active PoE Splitter 12V -		\$29.97
4/1/2023	Q0001866	Amazon Capital UCTRONICS Active PoE Splitter 12V -		\$9.99
4/2/2023	Q0001879	Amazon Capital Amcrest 5MP Turret POE Camera,		\$163.86
4/2/2023	Q0001888	Amazon Capital Amcrest 5MP Turret POE Camera,		\$163.86
4/2/2023	Q0001880	Amazon Capital Amcrest 5MP Turret POE Camera,		\$163.86
4/2/2023	Q0001878	Amazon Capital Amcrest 5MP Turret POE Camera,		\$54.62
4/2/2023	Q0001879	Amazon Capital Bergen Industries Inc PS313163 3-		\$19.35
4/2/2023	Q0001873	Amazon Capital Cable Matters 4K Mini DisplayPort to		\$9.97
4/2/2023	Q0001880	Amazon Capital Cable Matters Mini DisplayPort to VGA		\$16.33
4/2/2023	Q0001889	Amazon Capital Crucial RAM 32GB Kit (2x16GB) DDR4		\$68.99
4/2/2023	Q0001875	Amazon Capital DSLRKIT Gigabit USB Type C Active		\$62.45
4/2/2023	Q0001873	Amazon Capital LOVIMAG Strong Neodymium Disc		\$99.95
4/2/2023	Q0001897	Amazon Capital MazerPi 15 Pcs Pin Header, Pin		\$5.99
4/2/2023	Q0001875	Amazon Capital NETGEAR 5 Port PoE Gigabit		\$274.95
4/2/2023	Q0001875	Amazon Capital Orange Pi 5 16GB LPDDR4 RK3588S		\$299.98
4/2/2023	Q0001880	Amazon Capital UCTRONICS Active PoE Splitter 12V -		\$9.99
4/5/2023	Q0002104	Amazon Capital MEAN WELL Ultra Slim Step-Shape		\$73.36
4/8/2023	Q0002325	Amazon Capital Tripp Lite Heavy-Duty Computer		\$75.80
4/8/2023	Q0002318	Amazon Capital Tripp Lite Heavy-Duty Computer		\$75.80
4/9/2023	Q0002331	Amazon Capital NETGEAR 24-Port Gigabit Ethernet		\$179.99
4/9/2023	Q0002353	Amazon Capital Crucial RAM 32GB Kit (2x16GB) DDR4		\$68.99
4/11/2023	Q0002487	Amazon Capital 100G QSFP28 DAC Cable -		\$43.99
4/18/2023	Q0003101	Amazon Capital Aluminum Spacer 5/8" OD x 1/4" ID		\$67.04

4/18/2023	Q0003053	Amazon Capital	Panda 300Mbps Wireless N USB	\$65.99
4/18/2023	Q0003053	Amazon Capital	Panda Wireless PAU06 300Mbps	\$71.99
4/19/2023	B1904579	Amazon Capital	Services Inc	\$0.00
4/19/2023	Q0003142	Amazon Capital	#6 Stainless Steel Flat Washer (0.16"	\$6.78
4/19/2023	Q0003142	Amazon Capital	1/4-20 x 1-1/2" (3/8" to 4"	\$9.65
4/19/2023	Q0003142	Amazon Capital	24PCS Sand Paper Variety Pack	\$5.99
4/19/2023	Q0003164	Amazon Capital	4Pcs 6mm Flange Coupling	\$8.98
4/19/2023	Q0003142	Amazon Capital	6#32 x 1/2" Flat Countersunk Head	\$8.69
4/19/2023	Q0003142	Amazon Capital	Automatic Center Punch, 5 inch	\$8.99
4/19/2023	Q0003123	Amazon Capital	DSLARKIT Gigabit USB Type C Active	\$12.49
4/19/2023	Q0003132	Amazon Capital	EHOMEA2Z Ramekin Stainless Steel	\$11.98
4/19/2023	Q0003164	Amazon Capital	Gluerious Mini Hot Glue Gun with 30	\$13.99
4/19/2023	Q0003164	Amazon Capital	Greartisan DC 12V 25RPM Turbo	\$14.99
4/19/2023	Q0003142	Amazon Capital	Gya Labs Coffee Essential Oil (10ml) -	\$9.98
4/19/2023	Q0003164	Amazon Capital	HELIFOUNER 1280 Pieces Socket	\$29.99
4/19/2023	Q0003123	Amazon Capital	HiLetgo 2pcs A3967 Stepper Motor	\$13.49
4/19/2023	Q0003123	Amazon Capital	Hilitchi 460 Pcs M2 M3 M4 M5 Female	\$18.99
4/19/2023	Q0003143	Amazon Capital	J-B Weld 50112 ClearWeld 5 Minute	\$6.54
4/19/2023	Q0003132	Amazon Capital	TIMESETL 20 Pack 608-2RS Ball	\$8.99
4/19/2023	Q0003150	Amazon Capital	The Hillman Group 180237 Type A	\$15.06
4/19/2023	Q0003123	Amazon Capital	Washers, 304 Stainless Steel Large	\$17.85
4/19/2023	Q0003123	Amazon Capital	Wathai DC Brushless Cooling Fan	\$8.89
4/19/2023	Q0003133	W.W. Grainger I	TK83016289T Cable Tie Mounting	\$14.02
4/19/2023	Q0003133	W.W. Grainger I	TK83016290T Grounding Lug Kit	\$15.68
4/20/2023	B1904735	Amazon Capital	Services Inc	\$0.00
4/20/2023	B1904735	Amazon Capital	Services Inc	\$0.00
4/20/2023	B1904735	Amazon Capital	Services Inc	\$0.00
4/20/2023	B1904735	Amazon Capital	Services Inc	\$0.00
4/20/2023	Q0003295	Amazon Capital	10Pcs Needle File Set Hardened Alloy	\$7.89
4/20/2023	Q0003295	Amazon Capital	7 Pieces Center Drill Bits Kit,	\$12.99
4/20/2023	Q0003295	Amazon Capital	Adafruit (PID 324 Stepper Motor -	\$18.72
4/20/2023	Q0003295	Amazon Capital	Alfa Long-Range Dual-Band AC1200	\$62.99
4/20/2023	Q0003295	Amazon Capital	Bringsmart CCM6N DC PWM Motor	\$13.39
4/20/2023	Q0003295	Amazon Capital	DSLARKIT Gigabit USB Type C Active	\$24.98
4/20/2023	Q0003295	Amazon Capital	EPBOWPT DC 12V 24V to DC 5V 3A	\$35.96
4/20/2023	Q0003295	Amazon Capital	Essential Oil Diffuser for Home, 150ml	\$11.99
4/20/2023	Q0003314	Amazon Capital	LUBAN Led Signal Tower Stack	\$38.56
4/21/2023	Q0003373	Amazon Capital	LTC1871 DC-DC Boost Step-up	\$35.97
4/21/2023	Q0003350	Amazon Capital	LUBAN Led Signal Tower Stack	\$77.12
4/22/2023	Q0003426	Amazon Capital	1/4-20 Hex Nuts 100Pcs 304	\$8.57
4/22/2023	Q0003439	Amazon Capital	SHNITPWR 12V 10A Power Supply	\$48.15
4/23/2023	Q0003486	Amazon Capital	LUBAN Led Signal Tower Stack	\$38.56
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/24/2023	B1904859	Amazon Capital	Services Inc	\$0.00
4/26/2023	Z1053854	Amazon.	Purchase of (1) Automation Doc Ref:	\$399.99
4/26/2023	Z1053854	Amazon.	Purchase of (1) KEYESTUDIO Doc Ref:	\$130.75
4/26/2023	Z1053854	Amazon.	Purchase of (1) KEYESTUDIO Doc Ref:	\$38.99
4/26/2023	Z1053854	Amazon.	Purchase of (4) Controllino Doc Ref:	\$1,260.27
4/26/2023	Z1053854	Amazon.	Purchase of (4) Monoprice 1 Doc Ref:	\$1,766.33
4/26/2023	Z1053854	QNAPdirect.	Purchase of (1) Mellano Doc Ref:	\$518.64

[illegible]

5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/22/2023	B1906487	Amazon Capital Services Inc	\$0.00
5/24/2023	B1906712	Amazon Capital Services Inc	\$0.00
5/30/2023	Q0006871	Amazon Capital Tripp Lite Home Office Surge	(\$202.53)
6/6/2023	Z1056217	Stainless Steel Machine Kit, Black Doc Ref:	\$160.02
6/8/2023	Q0007887	McMaster-Carr S Din Rail, Din 3, 35mm x 2m	\$31.82
6/8/2023	Q0007887	McMaster-Carr S Grounding Bock with 12 holes, 6-	\$77.80
6/8/2023	Q0007887	McMaster-Carr S Non-insulated Jumper for 8mm wide	\$167.25
6/8/2023	Q0007887	McMaster-Carr S Shipping	\$52.24
6/8/2023	Q0007887	McMaster-Carr S Slotted Wire Duct with Snap-on	\$51.54
6/8/2023	Q0007887	McMaster-Carr S Spade Terminals, Vinyl Insulated,	\$31.12
6/8/2023	Q0007887	McMaster-Carr S Spiral Sleeving, Polyethylene Plastic,	\$4.93
6/8/2023	Q0007887	McMaster-Carr S Terminal Block, Din-Rail, 6 mm wide,	\$7.10
6/8/2023	Q0007887	McMaster-Carr S Terminal Block, Din-Rail, 6 mm wide,	\$357.00
6/8/2023	Q0007887	McMaster-Carr S Terminal Block, Din-Rail, 6 mm wide,	\$7.10
6/14/2023	Q0008478	Idaho State Uni CHE Building Instruction Costs for	\$53.41
6/14/2023	Q0008479	Idaho State Uni Research Supplies for the IGEM HERC	\$35.10
6/19/2023	B1909018	Amazon Capital Services Inc	\$0.00
6/20/2023	Z1057340	McMaster-Carr. Purchase of (3) 9581 Doc Ref:	\$90.65
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/22/2023	B1909302	McMaster-Carr Supply Co.	\$0.00
6/29/2023	B1909840	Amazon Capital Services Inc	\$0.00
7/7/2023	Z1058862	Supplies for the FY23 HERC IGEM Cyb Doc Ref:	\$20.03
10/19/2023	Q0023008	Amazon Capital DVOZVO Orange Pi 5/5B Case with	\$17.29
10/19/2023	Q0023082	Amazon Capital KIOXIA (Toshiba 128GB M.2 2230	\$14.98
10/19/2023	Q0023082	Amazon Capital SanDisk 64GB X2 (128GB) MicroSDXC	\$13.49
11/8/2023	B1917496	Amazon Capital Services Inc	\$0.00
11/8/2023	B1917496	Amazon Capital Services Inc	\$0.00
11/8/2023	B1917496	Amazon Capital Services Inc	\$0.00
11/16/2023	Q0026594	Pi Shop Inc FedEx Ground	\$16.38
11/16/2023	Q0026594	Pi Shop Inc Raspberry Pi 4 Model B/4GB	\$1,100.00
11/21/2023	Z1065795	Adafruit. Purchase of (1) Raspberry Doc Ref:	\$60.98
12/2/2023	Q0028337	Amazon Capital 4 in. Octagon Box, Drawn, 1-1/2 in.	\$9.18
12/2/2023	Q0028337	Amazon Capital 400 Pack Rainbow Balloons 12	\$17.99
12/2/2023	Q0028337	Amazon Capital ANMBEST 10PCS 5V Relay Module	\$14.89
12/2/2023	Q0028337	Amazon Capital ANMBEST 2PCS 4 Channel 5V Relay	\$60.40

5/8/2023	B1905760	McMaster-Carr Supply Co.	\$0.00
5/10/2023	Q0005143	McMaster-Carr S Thin-Wall (EMT) Steel Conduit, Zinc	(\$8.19)
5/10/2023	Q0005105	McMaster-Carr S UL Class CC Time-Delay Midget Fuse	\$802.41
5/10/2023	Q0005105	McMaster-Carr S shipping	\$29.35
5/11/2023	Q0004173	Amazon Capital Tripp Lite Duplex Multimode	\$39.92
5/12/2023	Q0005360	Amazon Capital Tripp Lite Duplex Multimode	\$23.93
5/12/2023	Q0005391	Amazon Capital Tripp Lite Duplex Multimode	\$23.93
5/16/2023	Q0005669	Amazon Capital Tripp Lite Duplex Multimode	\$106.68
5/17/2023	B1906256	Amazon Capital Services Inc	\$0.00
5/17/2023	B1906358	W.W. Grainger Inc.	\$0.00
5/25/2023	B1906917	McMaster-Carr Supply Co.	\$0.00
5/25/2023	B1906917	McMaster-Carr Supply Co.	\$0.00
5/26/2023	Q0006645	Amazon Capital Tripp Lite Duplex Multimode	\$60.96
5/28/2023	Q0006757	Amazon Capital Tripp Lite Duplex Multimode	\$15.24
5/29/2023	B1906969	Amazon Capital Services Inc	\$0.00
5/31/2023	B1907031	Amazon Capital Services Inc	\$0.00
5/31/2023	B1907031	Amazon Capital Services Inc	\$0.00
6/2/2023	Q0007216	Amazon Capital Tripp Lite Duplex Multimode	\$15.24
6/2/2023	Q0004395	McMaster-Carr S UL Class CC Time-Delay Midget Fuse	\$8.03
6/5/2023	B1907304	Amazon Capital Services Inc	\$0.00
6/5/2023	B1907304	Amazon Capital Services Inc	\$0.00
6/5/2023	B1907304	Amazon Capital Services Inc	\$0.00
6/5/2023	B1907304	Amazon Capital Services Inc	\$0.00
6/5/2023	B1907304	Amazon Capital Services Inc	\$0.00
6/5/2023	B1907304	Amazon Capital Services Inc	\$0.00
6/12/2023	B1908209	Amazon Capital Services Inc	\$0.00
6/12/2023	B1908209	Amazon Capital Services Inc	\$0.00
6/12/2023	B1908296	McMaster-Carr Supply Co.	\$0.00
6/12/2023	Z1056782	Shipping and handling for the deliv Doc Ref:	\$41.66
6/15/2023	B1908524	Amazon Capital Services Inc	\$0.00
6/26/2023	B1909343	Amazon Capital Services Inc	\$0.00
6/28/2023	B1909665	Amazon Capital Services Inc	\$0.00
7/3/2023	B1909989	Amazon Capital Services Inc	\$0.00
7/31/2023	Q0013268	Real-Time Digit 1 x 12 Channel Analogue Input Card	\$3,493.75
7/31/2023	Q0013268	Real-Time Digit 1 x 16 Channel Analogue Output Card	\$3,493.75
7/31/2023	Q0013268	Real-Time Digit 1 x 64 Channel Digital Input Card	\$3,493.75
7/31/2023	Q0013268	Real-Time Digit 1 x 64 Channel Digital Output Cards	\$3,493.75
7/31/2023	Q0013268	Real-Time Digit 1 x GTNET Chassis (can house up to	\$2,012.40
7/31/2023	Q0013268	Real-Time Digit 1 x GTNETx2 Card including available	\$10,062.00
7/31/2023	Q0013268	Real-Time Digit 1 x GTSYNC Card	\$3,493.75
7/31/2023	Q0013268	Real-Time Digit 1 x NovaCor Chassis with 1 Enabled	\$38,962.30
7/31/2023	Q0013268	Real-Time Digit 1 x NovaCor Cubicle including power	\$6,708.00
7/31/2023	Q0013268	Real-Time Digit Shipping and insurance costs (CIP)	\$838.50
8/3/2023	Q0013268	Real-Time Digit 1 x 12 Channel Analogue Input Card	(\$3,493.75)
8/3/2023	Q0013268	Real-Time Digit 1 x 16 Channel Analogue Output Card	(\$3,493.75)
8/3/2023	Q0013268	Real-Time Digit 1 x 64 Channel Digital Input Card	(\$3,493.75)
8/3/2023	Q0013268	Real-Time Digit 1 x 64 Channel Digital Output Cards	(\$3,493.75)
8/3/2023	Q0013268	Real-Time Digit 1 x GTNET Chassis (can house up to	(\$2,012.40)
8/3/2023	Q0013268	Real-Time Digit 1 x GTNETx2 Card including available	(\$10,062.00)
8/3/2023	Q0013268	Real-Time Digit 1 x GTSYNC Card	(\$3,493.75)
8/3/2023	Q0013268	Real-Time Digit 1 x NovaCor Chassis with 1 Enabled	(\$38,962.30)
8/3/2023	Q0013268	Real-Time Digit 1 x NovaCor Cubicle including power	(\$6,708.00)
8/3/2023	Q0013268	Real-Time Digit Shipping and insurance costs (CIP)	(\$838.50)
8/3/2023	I2301621	Real-Time Digital Simulator Technol	\$76,051.95
9/27/2023	Z1062477	Livingston International. Payment f Doc Ref:	\$250.69
11/3/2023	Q0025096	McMaster-Carr S Credit memo for P0066353. See	(\$848.74)
1/3/2024	B1920258	McMaster-Carr Supply Co.	\$0.00

 \$186,318.85

E7810 <5K Technology Equip - Office/Deptl

9/20/2022	I2254047	Dell, Inc.	\$32,216.40
10/10/2022	B1893944	Dell, Inc.	\$0.00

E7815 <5K Technology Equip - Enterprise

7/28/2022	I2246129	xByte Technologies Inc	\$21,330.00
8/11/2022	B1889427	xByte Technologies Inc	\$0.00
8/15/2022	I2248790	SimplyGroup II LLC	\$9,219.55
8/17/2022	B1889605	SimplyGroup II LLC	\$0.00
12/14/2022	I2268073	Dell, Inc.	\$4,814.76
12/21/2022	B1897863	Dell, Inc.	\$0.00
1/26/2023	I2265885	CDW Computer Centers, Inc.	\$99,294.23
1/30/2023	B1900432	CDW Computer Centers, Inc.	\$0.00
2/23/2023	J1327506	MKL from E7815 to E6411 Doc Ref: I2265885	(\$99,294.23)

E7860 <5K Educational Equipment

1/29/2024	Z1068888	WLKATA. Purchase of (1) Wlkata Miro Doc Ref:	\$1,800.00
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\$69,380.71

Trustee/Benefits

E7140 Tuition and Fees - Grad Assistants

8/15/2022	J1316076	FFD1 for 142-28584	\$35.00
8/15/2022	J1316076	G1GC for 142-28584	\$786.00
8/15/2022	J1316076	T1GC for 142-28584	\$4,198.00
1/13/2023	J1325011	G2GD for V00707178	\$786.00
1/13/2023	J1325011	SHI2 for V00707178	\$1,041.00
1/13/2023	J1325011	T2GD for V00707178	\$4,198.00
1/13/2023	J1325011	VVSF for V00707178	\$100.00

\$11,144.00

Totals for 226244

\$382,706.18

Index: 855910 - ISBOE IGEM HERC Secure Cyber. SUB1
Fund: 226245 - ISBOE IGEM HERC Secure Cyber. SUB1

Subcontracts

ES001 Subaward 1 Expenses			
12/20/2022	I2269160	Idaho State University	\$33,172.30
1/6/2023	I2270868	Idaho State University	\$28,134.02
3/28/2023	I2283183	Idaho State University	\$367.84
4/5/2023	I2284411	Idaho State University	\$12,676.00
5/10/2023	I2289818	Idaho State University	\$3,381.00
6/23/2023	I2296833	Idaho State University	\$78,086.16
10/2/2023	I2307238	Idaho State University	\$120,617.94
5/16/2024	Q0054226	Idaho State Uni Award UA6244-855911: Period	\$9,392.49
			\$285,827.75
Totals for 226245			\$285,827.75
Totals for UA6244			\$668,533.93

University of Idaho

Itemized Expenditures

From 7/1/2023 through 11/20/2025

Grant: UA7231 - ISBOE IGEM HERC: Secure Cyberspace

Index: 855888 - ISBOE IGEM HERC Secure Cyberspace

Fund: 227231 - ISBOE IGEM HERC Secure Cyberspace

Salaries

E4108 Summer Salary

Borrelli, Robert	80 Hours	\$5,665.60
Haney, Michael	240 Hours	\$22,411.20
Kolias, Konstantinos	62.63 Hours	\$4,857.77

E4109 IA/GA Salary

Codling, Heidi	1420 Hours	\$31,708.20
Vera, Sebastian	376 Hours	\$8,238.16

\$72,880.93

Fringe Benefits

E4280 Faculty CFR Benefit Expense	\$10,322.17
E4282 Student CFR Fringe Expense	\$932.14

\$11,254.31

Travel

E5399 Other Employee Travel

1/13/2025	Z1088736	cables and signal processor for HE	Doc Ref:	\$2,338.75
1/13/2025	Z1088736	electronic components for research	Doc Ref:	\$519.65
1/30/2025	Z1089397	materials needed for research	Doc Ref: 41571562	\$766.15
4/14/2025	J1375552	TGT from E5399 to E5724	Doc Ref: Z1088736	(\$2,858.40)
4/14/2025	J1375558	TGT from E5399 to E5724	Doc Ref: Z1089397	(\$766.15)

\$0.00

Operating Expenses

E5199 Other Professional Service

5/31/2024	Q0057313	System Tech., I Install fiber, and interconnect		\$3,812.85
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E5310 Technology - Services

11/28/2023	Q0027658	xByte Technolog WAR-SARNWL-3YMFHD-XB		\$2,499.00
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E5420 Non-Capital Office Equipment

2/20/2025	Z1090581	3D printers, filaments, and set up	Doc Ref:	\$2,452.01
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E5724 Research Supplies

9/8/2023	Z1061527	Lab Supplies for IGEM HERC Shooting	Doc Ref:	\$412.50
12/9/2023	Q0029482	Amazon Capital LEGO MINDSTORMS Robot Inventor		\$619.95
12/9/2023	Q0029482	Amazon Capital shipping		\$7.49
1/4/2024	B1920337	Amazon Capital Services Inc		\$0.00
1/8/2024	Q0032607	Amazon Capital 1 in x 30 ft Hook and Loop Roll		\$7.98
1/8/2024	Q0032607	Amazon Capital Gearmo USB to RS-422/485		\$23.69

1/8/2024	Q0032607	Amazon Capital	Scissors Set of 6-Pack, 8" Scissors All	\$9.77
1/8/2024	Q0032607	Amazon Capital	USB 3.0 HDMI KVM Switch, 4 Ports	\$60.99
1/8/2024	Q0032607	Amazon Capital	USB to Serial RS-232 Adapter with	\$21.94
1/9/2024	Q0032632	Amazon Capital	Cable Matters USB to RJ45 Serial	\$67.40
1/9/2024	Q0032632	Amazon Capital	Gearmo Pro 5ft. USB to RS-485/422	\$24.24
1/18/2024	Q0034068	Amazon Capital	ECSiNG 15 Sets PCB DIN C45 Rail	\$14.89
1/18/2024	Q0033962	Amazon Capital	Prime-Line 9076244 Wing Nuts, Cold-	\$29.37
1/19/2024	Q0034154	Amazon Capital	VIVO Black Universal TV Stand for 32	\$75.60
1/20/2024	Q0034450	Amazon Capital	DIN Rail Mount Bracket for Raspberry	\$410.16
1/20/2024	Q0034454	Amazon Capital	ECSiNG 15 Sets PCB DIN C45 Rail	\$44.67
1/20/2024	Q0034450	Amazon Capital	VIVO Black Universal TV Stand for 32	\$75.60
1/22/2024	Q0034794	Amazon Capital	VIVO Black Universal TV Stand for 32	\$50.40
1/23/2024	Q0034872	Amazon Capital	VIVO Black Universal TV Stand for 32	\$50.40
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
1/29/2024	B1922384	Amazon Capital Services Inc		\$0.00
2/2/2024	Q0036529	Amazon Capital	Tripp Lite ISOBAR8ULTRA Isobar 8	\$476.16
2/3/2024	Q0036560	Amazon Capital	ASUS ZenScreen Touch Screen	\$1,030.02
2/3/2024	Q0036585	Amazon Capital	Brother Genuine P-Touch TZE-131	\$22.00
2/3/2024	Q0036585	Amazon Capital	Cables Direct Online Grey 20ft Cat6	\$7.50
2/3/2024	Q0036585	Amazon Capital	Coolwell RGB Full-Color LED Matrix	\$38.50
2/3/2024	Q0036585	Amazon Capital	Logitech K400 Plus Wireless Touch	\$72.00
2/3/2024	Q0036585	Amazon Capital	NETGEAR 5 Port PoE Gigabit	\$699.90
2/3/2024	Q0036585	Amazon Capital	PowerBear 4K HDMI Cable 10 ft	\$7.19
2/3/2024	Q0036585	Amazon Capital	Seadream High Speed Micro HDMI	\$32.36
2/3/2024	Q0036585	Amazon Capital	TEKTON Everybit Ratchet	\$35.00
2/3/2024	Q0036585	Amazon Capital	TEKTON Everybit Tech Rescue Kit	\$24.00
2/3/2024	Q0036556	Amazon Capital	Tripp Lite ISOBAR8ULTRA Isobar 8	\$317.44
2/3/2024	Q0036585	Amazon Capital	Tripp Lite Isobar 8 Outlet Surge	\$102.99
2/7/2024	B1922939	Amazon Capital Services Inc		\$0.00
2/7/2024	B1922939	Amazon Capital Services Inc		\$0.00
2/8/2024	B1923125	Amazon Capital Services Inc		\$0.00
2/9/2024	Q0036091	Amazon Capital	ASUS ZenScreen Touch Screen	\$1,030.02
2/9/2024	Q0036090	Amazon Capital	ASUS ZenScreen Touch Screen	\$1,030.02
2/9/2024	Q0036089	Amazon Capital	ASUS ZenScreen Touch Screen	\$1,030.02
2/9/2024	Q0036088	Amazon Capital	ASUS ZenScreen Touch Screen	\$1,030.02
2/9/2024	Q0036087	Amazon Capital	ASUS ZenScreen Touch Screen	\$686.68
2/9/2024	Q0036086	Amazon Capital	ASUS ZenScreen Touch Screen	\$1,030.02
2/10/2024	Q0037899	Amazon Capital	DIYables LED Traffic Light Module for	\$9.99
2/10/2024	Q0037908	Amazon Capital	Rapid Care First Aid 80095 4 Shelf	\$139.98
2/10/2024	Q0037896	Amazon Capital	StarTech.com Anti-Static Mat - 25" x	\$277.80
2/11/2024	Q0037911	Amazon Capital	Amazon Basics 48-Pack AA Alkaline	\$13.43
2/11/2024	Q0037914	Amazon Capital	Arduino Uno REV3 [A000066]	\$297.55
2/11/2024	Q0037914	Amazon Capital	Assurance Designed Black Grounding	\$83.94
2/11/2024	Q0037910	Amazon Capital	Chanzon 40pcs 30cm Long Female to	\$6.99
2/11/2024	Q0037911	Amazon Capital	Klein Tools 32717 Precision	\$332.64
2/11/2024	Q0037914	Amazon Capital	Raspberry Pi 3 Model B+ Board (3B+)	\$49.91
2/12/2024	B1923222	Amazon Capital Services Inc		\$0.00
2/12/2024	B1923222	Amazon Capital Services Inc		\$0.00
2/12/2024	B1923222	Amazon Capital Services Inc		\$0.00
2/12/2024	B1923222	Amazon Capital Services Inc		\$0.00
2/12/2024	B1923222	Amazon Capital Services Inc		\$0.00
2/21/2024	B1923639	Amazon Capital Services Inc		\$0.00

2/21/2024	B1923639	Amazon Capital Services Inc	\$0.00
2/21/2024	B1923639	Amazon Capital Services Inc	\$0.00
2/21/2024	B1923639	Amazon Capital Services Inc	\$0.00
2/21/2024	B1923639	Amazon Capital Services Inc	\$0.00
2/21/2024	B1923639	Amazon Capital Services Inc	\$0.00
2/21/2024	Z1070178	CaseCruzer INV#148348 for Dr. Micha Doc Ref:	\$2,459.40
2/21/2024	Z1070178	CaseCruzer INV#148349 for Dr. Micha Doc Ref:	\$2,398.66
2/21/2024	Q0039406	Pi Shop Inc Full sized breadboard – 830 points	\$119.00
2/21/2024	Q0039406	Pi Shop Inc Micro-HDMI to HDMI cable for Pi 4, 3ft,	\$99.00
2/21/2024	Q0039406	Pi Shop Inc Raspberry Pi 27W USB-C Power Supply	\$326.40
2/21/2024	Q0039406	Pi Shop Inc Raspberry Pi 3 T-Cobbler Breakout Kit	\$179.00
2/21/2024	Q0039406	Pi Shop Inc Raspberry Pi 5/8GB	\$1,920.00
2/21/2024	Q0039406	Pi Shop Inc Raspberry Pi Case for Pi 5 Black/Grey	\$400.00
2/21/2024	Q0039406	Pi Shop Inc Shipping	\$39.44
2/21/2024	Q0039406	Pi Shop Inc Type-C Power Switch for Raspberry Pi 4	\$99.00
2/21/2024	Q0039406	Pi Shop Inc USB Micro SD Card Reader - Black	\$59.00
2/21/2024	Q0039406	Pi Shop Inc microSD Card With Raspberry Pi	\$299.00
2/22/2024	B1923825	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
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2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
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2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/26/2024	B1923880	Amazon Capital Services Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
2/29/2024	!0536108	Pi Shop Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/4/2024	B1924268	Amazon Capital Services Inc	\$0.00
3/15/2024	Q0040872	Amazon Capital Klein Tools MM325 Multimeter, Digital	\$419.64
3/15/2024	Q0040872	Amazon Capital OneLeaf 120PCS Cord Organizer 6 x	\$9.53
3/15/2024	Q0040732	Amazon Capital Antrader Breadboard Jumper Wires	\$5.49
3/15/2024	Q0040732	Amazon Capital Elastic Band for Sewing, 2 Inch x 12	\$7.09
3/15/2024	Q0040732	Amazon Capital GearIT Cat 6 Ethernet Cable 1 ft (24-	\$36.61
3/15/2024	Q0040732	Amazon Capital GearIT Cat 6 Ethernet Cable 2 ft (24-	\$43.54
3/15/2024	Q0040732	Amazon Capital GearIT Cat 6 Ethernet Cable 3 ft (24-	\$46.51
3/15/2024	Q0040732	Amazon Capital Lichamp 10-Pack Colored Electrical	\$19.79

3/15/2024	Q0040732	Amazon Capital	Screen Cleaner Spray - TV Screen	\$9.99
3/15/2024	Q0040732	Amazon Capital	Tripp Lite ISOBAR8ULTRA Isobar 8	\$83.74
3/15/2024	Q0040579	Amazon Capital	MEAN WELL Ultra Slim Step-Shape	\$120.70
3/15/2024	Q0040579	Amazon Capital	shipping	\$3.53
3/18/2024	B1925045	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/20/2024	!0537692	Amazon Capital	Services Inc	\$0.00
3/26/2024	Q0045250	Amazon Capital	Cherry Stream Keyboard TKL Wired	\$79.96
3/26/2024	Q0045282	Amazon Capital	Cherry Stream Keyboard TKL Wired	\$319.84
3/26/2024	Q0045271	Amazon Capital	Gloreen Clear Storage Bin, 16 Quart	\$92.97
3/26/2024	Q0045250	Amazon Capital	Gloreen Clear Storage Bin, 16 Quart	\$30.99
3/26/2024	Q0045265	Amazon Capital	Gloreen Clear Storage Bin, 16 Quart	\$92.97
3/26/2024	Q0045269	Amazon Capital	Gloreen Clear Storage Bin, 16 Quart	\$92.97
3/27/2024	Q0045306	Amazon Capital	LUBAN Led Signal Tower Stack	\$19.28
3/28/2024	Q0045650	Amazon Capital	LUBAN Led Signal Tower Stack	\$38.56
3/28/2024	Q0045649	Amazon Capital	LUBAN Led Signal Tower Stack	\$38.56
3/30/2024	Q0045987	Amazon Capital	LUBAN Led Signal Tower Stack	\$38.56
4/4/2024	Z1072456	Bought for research purposes. Inclu	Doc Ref:	\$128.19
4/4/2024	Z1072456	Sales tax returned. Sales tax had b	Doc Ref:	(\$7.80)
4/4/2024	Z1072456	Supplies for research purposes. Inc	Doc Ref:	\$9.53
4/15/2024	!0539997	Amazon Capital	Services Inc	\$0.00
4/15/2024	!0539997	Amazon Capital	Services Inc	\$0.00
4/15/2024	!0539997	Amazon Capital	Services Inc	\$0.00
4/15/2024	!0539997	Amazon Capital	Services Inc	\$0.00
4/15/2024	!0539997	Amazon Capital	Services Inc	\$0.00
4/17/2024	!0540186	Amazon Capital	Services Inc	\$0.00
4/17/2024	!0540186	Amazon Capital	Services Inc	\$0.00
4/17/2024	!0540186	Amazon Capital	Services Inc	\$0.00
4/17/2024	!0540186	Amazon Capital	Services Inc	\$0.00
4/22/2024	!0540576	Amazon Capital	Services Inc	\$0.00
5/12/2024	Q0053568	Amazon Capital	Seadream High Speed Micro HDMI	\$97.08
6/3/2024	!0544922	Amazon Capital	Services Inc	\$0.00
6/5/2024	Q0050713	Amazon Capital	Seadream High Speed Micro HDMI	\$64.72
6/5/2024	Q0050327	Amazon Capital	Cuberspeed Moyu rs3m Maglev 2021	\$109.80
6/5/2024	Q0050338	Amazon Capital	ELOOGAA 120Pcs 20cm(7.9inch)	\$20.94
6/5/2024	Q0050231	Amazon Capital	CanaKit 3.5A Raspberry Pi 4 Power	\$79.92
6/5/2024	Q0050231	Amazon Capital	DARKROCK 3-Pack 120mm Black	\$8.99
6/5/2024	!0545406	Amazon Capital	Services Inc	\$0.00
6/5/2024	!0545406	Amazon Capital	Services Inc	\$0.00
6/5/2024	!0545406	Amazon Capital	Services Inc	\$0.00
6/5/2024	!0545406	Amazon Capital	Services Inc	\$0.00
6/5/2024	!0545406	Amazon Capital	Services Inc	\$0.00
11/14/2024	Q0085591	Amazon Capital	150PCS Reusable Fastener Straps - 6	\$10.78
11/14/2024	Q0085589	Amazon Capital	Anker Cable Management, Magnetic	\$61.25
11/14/2024	Q0085722	Amazon Capital	HUASAI 4/5" 100 Pack Zip Tie Mount	\$17.98
11/14/2024	Q0085722	Amazon Capital	LX IntMfr. Hook and Loop Cable Ties,	\$75.60
11/14/2024	Q0085648	Amazon Capital	Secure 1 Inch Black Polyethylene	\$52.39
11/14/2024	Q0085589	Amazon Capital	Spiral Cable Wrap -20 Ft 1/2" Cable	\$6.99
11/14/2024	Q0085589	Amazon Capital	VELCRO Brand Mountable Cable	\$33.88

11/25/2024	Q0087672	Amazon Capital	4 AWG Gauge Wire (25ft) Black	\$64.87
11/25/2024	Q0087672	Amazon Capital	Unslotted Hex Washer Head Sheet	\$125.67
11/26/2024	Q0087692	Amazon Capital	Blue Sea Systems 5129 Fuse ANL	\$24.41
11/26/2024	Q0087693	Amazon Capital	Blue Sea Systems 5125 ANL Fuse -	\$39.50
11/26/2024	Q0087693	Amazon Capital	Fiberglass Roller Tools Kit, 3pcs	\$11.19
11/26/2024	Q0087693	Amazon Capital	SAMSUNG 990 PRO SSD NVMe M.2	\$159.99
11/26/2024	Q0087699	Amazon Capital	Metoro Steel 18 gauge Metal Plate.	\$221.88
11/26/2024	Q0087682	Amazon Capital	Blue Sea Systems 5131 Fuse ANL	\$46.34
11/26/2024	Q0087682	Amazon Capital	OFC Black 1/0 AWG Gauge Wire	\$142.87
11/26/2024	Q0087690	Amazon Capital	8 Gauge Wire - 25ft Black 8 Gauge	\$28.87
11/26/2024	Q0087690	Amazon Capital	Grade 5 Hex Cap Bolts Screws, Nuts,	\$89.72
11/26/2024	Q0087694	Amazon Capital	1/0 AWG Gauge Wire (25ft) Red	\$142.87
11/26/2024	Q0087694	Amazon Capital	Corsair TM30 Performance Thermal	\$7.99
11/26/2024	Q0087935	Amazon Capital	#6#8#10 Phillips Pan Head Machine	\$262.42
11/26/2024	Q0087935	Amazon Capital	Blue Sea Systems 5122 Fuse ANL 50-	\$20.82
11/26/2024	Q0087935	Amazon Capital	SIMPLYHARDWARE 1708 Fiberglass	\$41.95
11/26/2024	Q0087917	Amazon Capital	Durham 305B-95 Cold Rolled Steel	\$159.99
11/26/2024	Q0087920	Amazon Capital	Durham 102-95-IND Gray Cold Rolled	\$178.65
11/26/2024	Q0087923	Amazon Capital	Astro Pneumatic Tool 1442 13" Hand	\$83.42
11/26/2024	Q0087947	Amazon Capital	Blue Sea Systems 5122 Fuse ANL 50-	\$20.82
11/26/2024	Q0087941	Amazon Capital	Elgato Stream Deck +, Audio Mixer,	\$167.20
11/26/2024	Q0087941	Amazon Capital	Official Creality PETG 3D Printer	\$12.99
11/26/2024	Q0087942	Amazon Capital	Official Creality PETG 3D Printer	\$27.53
11/26/2024	Q0087942	Amazon Capital	Official Creality PETG 3D Printer	\$12.99
11/26/2024	Q0087941	Amazon Capital	Polymaker ABS Filament 1.75mm	\$37.38
11/26/2024	Q0087941	Amazon Capital	Polymaker ABS Filament 1.75mm	\$19.54
11/26/2024	Q0087942	Amazon Capital	Polymaker ABS Filament 1.75mm	\$37.38
11/26/2024	Q0087947	Amazon Capital	SVAAR 34pcs Battery Cable Lugs kit	\$26.99
11/26/2024	Q0087939	Amazon Capital	SVAAR 4 6 8 AWG Battery Lug	\$26.99
11/27/2024	Q0087970	Amazon Capital	8 Gauge Wire - 25ft Red 8 Gauge	\$28.87
11/27/2024	Q0087970	Amazon Capital	ALEKOR 10 Sizes 505 Pieces Large	\$29.99
11/27/2024	Q0087972	Amazon Capital	Blue Sea Systems 5122 Fuse ANL 50-	\$20.82
11/27/2024	Q0087972	Amazon Capital	Cooler Master MWE Gold 1050 V2	\$159.99
11/27/2024	Q0088129	Amazon Capital	Antec C8 Curve Wood, Fans not	\$149.99
11/28/2024	Q0088151	Amazon Capital	ASUS ROG Ryujin III 360 ARGB All-in-	\$349.99
11/28/2024	Q0088153	Amazon Capital	The Original Rhino Strong Commercial	\$19.95
11/29/2024	Q0088197	Amazon Capital	1" (0.944") Clear Acrylic 24"x12"	\$71.53
11/29/2024	Q0088160	Amazon Capital	TotalBoat 5:1 Epoxy Resin Kit	\$154.99
11/29/2024	Q0088191	Amazon Capital	ASUS TUF Gaming GeForce RTX™	\$2,204.57
11/30/2024	Q0088209	Amazon Capital	Inch 18-8 Stainless Steel Allen	\$143.06
11/30/2024	Q0088204	Amazon Capital	Inch 18-8 Stainless Steel Allen	\$158.09
11/30/2024	Q0088209	Amazon Capital	Screw Bolt Nut Thread Measure	\$10.28
11/30/2024	Q0088204	Amazon Capital	Trivd Frol Rivet Nut Tool Kit, 520pcs	\$64.77
12/1/2024	Q0088224	Amazon Capital	1" (0.944") Clear Acrylic 12"x12"	\$84.26
12/1/2024	Q0088406	Amazon Capital	AMD Ryzen 9 7950X 16-Core, 32-	\$466.99
12/1/2024	Q0088413	Amazon Capital	Blue Sea Systems 5005 ANL Fuse	\$52.70
12/1/2024	Q0088408	Amazon Capital	Blue Sea Systems 5164 ANL 35 AMP	\$62.73
12/1/2024	Q0088307	Amazon Capital	Blue Sea Systems 5164 ANL 35 AMP	\$41.82
12/1/2024	Q0088412	Amazon Capital	FLASHFORGE PLA Filament 1.75mm,	\$15.83
12/1/2024	Q0088406	Amazon Capital	G.SKILL Trident Z5 Neo RGB Series	\$435.96
12/1/2024	Q0088406	Amazon Capital	Metric Class 10.9 Hex Cap Screws	\$122.50
12/1/2024	Q0088409	Amazon Capital	OFC 4 AWG Gauge Wire (25ft) Red	\$64.87
12/1/2024	Q0088223	Amazon Capital	Official Creality PETG 3D Printer	\$25.98
12/1/2024	Q0088405	Amazon Capital	SELTHERM Large Size Marine Grade	\$15.99
12/3/2024	Q0088623	Amazon Capital	XINGYHENG 20 Pairs Male Female	\$38.97
12/3/2024	Q0088653	Amazon Capital	CrocSee 25ft - 1/2 inch Braided	\$12.79
12/3/2024	Q0088653	Amazon Capital	uxcell Silicone RCA Port Anti-Dust	\$9.39

[illegible]

12/26/2024	!0566079	Amazon Capital Services Inc	\$0.00
12/26/2024	!0566079	Amazon Capital Services Inc	\$0.00
12/26/2024	!0566079	Amazon Capital Services Inc	\$0.00
12/26/2024	!0566079	Amazon Capital Services Inc	\$0.00
12/26/2024	!0566079	Amazon Capital Services Inc	\$0.00
12/26/2024	Q0092201	Amazon Capital EMK 90 Degree Toslink Optical Cable	\$23.98
12/26/2024	Q0092201	Amazon Capital EMK 90 Degree Toslink Optical Cable	\$75.54
12/27/2024	!0566146	Amazon Capital Services Inc	\$0.00
12/27/2024	Q0092218	Amazon Capital EMK 90 Degree Toslink Optical Cable	\$23.98
12/28/2024	Q0092294	Amazon Capital CESS-075-1f Heavy Duty Waterproof	\$47.96
12/28/2024	Q0092294	Amazon Capital miniDSP, UMIK-2 USB Reference	\$239.95
12/28/2024	Q0092297	Amazon Capital Bangun 0.2m (7 inch) Short Optical	\$53.94
12/28/2024	Q0092300	Amazon Capital Fosi Audio BT20A Pro Bluetooth 5.0	\$99.99
12/28/2024	Q0092302	Amazon Capital S.M.S.L A100 Bluetooth 5.0 Stereo	\$92.99
12/28/2024	Q0092304	Amazon Capital CESS-075-6i Heavy Duty Waterproof	\$42.76
12/30/2024	!0566186	Amazon Capital Services Inc	\$0.00
12/30/2024	!0566186	Amazon Capital Services Inc	\$0.00
12/30/2024	Q0092325	Amazon Capital CESS-075-3f Heavy Duty Waterproof	\$59.96
1/15/2025	!0570069	Amazon Capital Services Inc	\$0.00
1/15/2025	!0570069	Amazon Capital Services Inc	\$0.00
1/16/2025	!0570148	Amazon Capital Services Inc	\$0.00
1/17/2025	!0570496	Amazon Capital Services Inc	\$0.00
1/17/2025	!0570496	Amazon Capital Services Inc	\$0.00
1/17/2025	!0570496	Amazon Capital Services Inc	\$0.00
1/17/2025	!0570496	Amazon Capital Services Inc	\$0.00
1/17/2025	!0570496	Amazon Capital Services Inc	\$0.00
1/17/2025	!0570496	Amazon Capital Services Inc	\$0.00
1/20/2025	!0570548	Amazon Capital Services Inc	\$0.00
1/20/2025	!0570548	Amazon Capital Services Inc	\$0.00
1/27/2025	Z1089276	Research supplies Doc Ref: 42216641	\$145.90
1/27/2025	Z1089276	Research supplies Doc Ref: 42216641	\$375.46
3/24/2025	Q0100801	Amazon Capital EMK 90 Degree Toslink Optical Cable	(\$11.99)
3/24/2025	Q0100794	Amazon Capital EMK 90 Degree Toslink Optical Cable	(\$23.98)
3/24/2025	Q0100800	Amazon Capital EMK 90 Degree Toslink Optical Cable	(\$11.99)
3/24/2025	Q0100798	Amazon Capital EMK 90 Degree Toslink Optical Cable	(\$50.36)
3/24/2025	Q0100795	Amazon Capital EMK 90 Degree Toslink Optical Cable	(\$25.18)
3/24/2025	!0576596	Amazon Capital Services Inc	\$0.00
3/24/2025	!0576596	Amazon Capital Services Inc	\$0.00
3/24/2025	!0576596	Amazon Capital Services Inc	\$0.00
3/24/2025	!0576596	Amazon Capital Services Inc	\$0.00
3/24/2025	!0576596	Amazon Capital Services Inc	\$0.00
4/2/2025	Q0100784	Amazon Capital CESS-075-1f Heavy Duty Waterproof	(\$47.96)
4/2/2025	Q0100784	Amazon Capital miniDSP, UMIK-2 USB Reference	(\$239.95)
4/2/2025	!0577713	Amazon Capital Services Inc	\$0.00
4/2/2025	!0577713	Amazon Capital Services Inc	\$0.00
4/14/2025	J1375552	TGT from E5399 to E5724 Doc Ref: Z1088736	\$2,858.40
4/14/2025	J1375558	TGT from E5399 to E5724 Doc Ref: Z1089397	\$766.15
			\$52,479.91

\$5K or > Capital Outlay

E6499 >5K Computer Equipment Other

11/21/2023	Q0027202	xByte Technolog Dell PowerEdge T630 Server	\$10,602.00
11/21/2023	Q0027202	xByte Technolog Shipping	\$235.00
11/27/2023	Q0027604	CDW Computer Ce DELL CTO PE MX750C 2X6334	\$12,998.26
11/30/2023	Q0028033	xByte Technolog Dell PowerEdge M640 Blade Server	\$20,890.00
11/30/2023	Q0028033	xByte Technolog Shipping	\$350.00
12/6/2023	B1919190	xByte Technologies Inc	\$0.00

12/6/2023	B1919190	xByte Technologies Inc	\$0.00
12/7/2023	B1919282	xByte Technologies Inc	\$0.00
12/7/2023	B1919282	xByte Technologies Inc	\$0.00
12/8/2023	Q0029475	CDW Computer Ce DELL CTO PE MX750C 2X6334	\$25,996.52
12/11/2023	Q0029523	CDW Computer Ce DELL CTO 10GB PASS THROUGH	\$1,046.32
12/11/2023	Q0029523	CDW Computer Ce DELL CTO PE MX750C 2X6334	\$12,998.26
1/30/2024	Q0035851	Structured Comm 48PORT EX2300	\$11,865.66
2/6/2024	Q0037061	Structured Comm MULTIYEAR CUSTOM CP SUP SVCS	\$2,986.04
2/8/2024	B1923200	Structured Communications Systems,	\$0.00
2/15/2024	B1923566	Structured Communications Systems,	\$0.00
2/20/2024	Q0039274	Structured Comm QFX5120-48Y AIRFLOW IN RED AC	\$14,365.95
2/26/2024	Q0040106	Structured Comm MULTIYEAR CUSTOM CP SUP SVCS	\$5,933.09
3/4/2024	B1924419	Structured Communications Systems,	\$0.00
3/7/2024	B1924697	Structured Communications Systems,	\$0.00
4/11/2025	Q0108792	CDW Computer Ce DELL CTO PE R7625 2X9654	\$56,899.00
4/30/2025	I0580427	CDW Computer Centers, Inc.	\$0.00

\$177,166.10

< \$5K Non-Capital Outlay

E7830 <5K Computer Equipment Other

11/20/2023	Q0027117	Dell, Inc. Special Pricing_Mobile Precision3580 -	\$34,999.80
11/30/2023	B1918622	Dell, Inc.	\$0.00

E7860 <5K Educational Equipment

3/12/2024	Z1071229	Walkata.com. Purchase of (1) Convey	Doc Ref: \$570.00
4/10/2024	Z1072838	Bambulab.com Purchase of (1) Bambu	Doc Ref: \$984.00

E7951 <5K Office Furniture

8/4/2023	Q0013763	W.W. Grainger I TK87870814T Computer Cart All	\$660.99
8/23/2023	B1912991	W.W. Grainger Inc.	\$0.00
9/2/2023	Q0018164	VWR Scientific CPU-HOLDER, FOOT MOUNTED	\$448.96
9/2/2023	Q0018164	VWR Scientific ROLL HOLDER	\$129.41
9/2/2023	Q0018164	VWR Scientific VWR 30 X 60 MANUAL LAMINATE	\$4,638.64
9/2/2023	Q0018164	VWR Scientific VWR 30X60	\$1,776.41
9/2/2023	Q0018164	VWR Scientific VWR 30X60	\$4,325.56
9/2/2023	Q0018164	VWR Scientific VWR 30X72	\$7,841.08
9/2/2023	Q0018164	VWR Scientific VWR 60IN BIN RAIL	\$178.62
9/2/2023	Q0018164	VWR Scientific VWR 72IN BIN RAIL	\$359.64
9/2/2023	Q0018164	VWR Scientific VWR BOTTLE HOLDER	\$57.03
9/2/2023	Q0018164	VWR Scientific VWR EQUIPMENT HOLDER - BAR	\$870.24
9/2/2023	Q0018164	VWR Scientific VWR LIGHT LED 22.44 IN IP50 SKIRT	\$669.40
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
9/13/2023	I0518075	VWR Scientific Products Corp.	\$0.00
10/4/2023	Q0021080	VWR Scientific EQUIPMENT HOLDER - BAR MOUNT	\$580.16
10/4/2023	Q0021080	VWR Scientific VWR EQUIPMENT HOLDER - BAR	\$580.16
10/23/2023	I0521817	VWR Scientific Products Corp.	\$0.00
10/23/2023	I0521817	VWR Scientific Products Corp.	\$0.00
10/25/2023	Q0023671	Workspace Devel Think; Chair, 3D knitColor Scheme:	\$5,721.94

10/30/2023 10522620 Workspace Development LLC

\$0.00

 \$65,392.04

Trustee/Benefits

E7140 Tuition and Fees - Grad Assistants

8/22/2023	J1339578	AWA3 for V01263740	\$35.00
8/22/2023	J1339578	G1GC for V01263740	\$866.00
8/22/2023	J1339578	SHI1 for V01263740	\$1,080.00
8/22/2023	J1339578	T1GC for V01263740	\$4,408.00
1/24/2024	J1348081	FFD2 for V01263740	\$35.00
1/24/2024	J1348081	G2GC for V01263740	\$866.00
1/24/2024	J1348240	G2GD for V00950449	\$866.00
1/24/2024	J1348081	MG2T for V01263740	\$105.00
1/24/2024	J1348240	SHI2 for V00950449	\$1,080.00
1/24/2024	J1348081	SHI2 for V01263740	\$1,080.00
1/24/2024	J1348081	T2GC for V01263740	\$4,408.00
1/24/2024	J1348240	T2GD for V00950449	\$4,408.00
2/27/2024	J1350098	FFD2 for V00950449	\$35.00
5/24/2024	J1354661	G3HC for V01263740	\$288.00
5/24/2024	J1354661	KCP3 for V01263740	\$105.00
5/24/2024	J1354661	T3HC for V01263740	\$1,470.00
9/3/2024	J1362395	FFD1 for V01263740	\$140.00

 \$21,275.00

Totals for 227231

 \$400,448.29

Index: 855887 - ISBOE IGEM HERC Secure Cyber. SUB1
Fund: 227287 - ISBOE IGEM HERC Cyberspace-ISU Sub

Subcontracts

ES001 Subaward 1 Expenses			
5/9/2024	Q0053233	Idaho State Uni Award UA7231-855887: Period	\$1,000.52
5/9/2024	Q0053234	Idaho State Uni Award UA7231-855887: Period	\$12,165.44
5/9/2024	Q0053232	Idaho State Uni Award UA7231-855887: Period	\$745.45
5/23/2024	Q0055838	Idaho State Uni Award UA7231-855887: Period	\$4,384.40
6/30/2024	Q0064609	Idaho State Uni Award UA7231-855887: Period	\$178,090.00
7/31/2024	Q0067495	Idaho State Uni Award UA7231-855887: Period	\$4,732.46
3/4/2025	Q0102163	Idaho State Uni Salary and fringe for Award UA7231-	\$2,721.25
3/18/2025	Q0104454	Idaho State Uni Award UA7231-855887 payment for	\$12,929.82
3/19/2025	Q0104713	Idaho State Uni Award UA7231-855887 salary and	\$383.53
3/19/2025	Q0104716	Idaho State Uni Award UA7231-855887, period from	\$51,168.51
5/1/2025	Q0112519	Idaho State Uni salary, fringe and materials for Award	\$12,251.32
6/17/2025	Q0120973	Idaho State Uni salary, fringe and materials for Award	\$7,996.00
6/30/2025	Q0122944	Idaho State Uni salary, fringe, and other expenses for	\$135,180.06
			\$423,748.76
Totals for 227287			\$423,748.76
Totals for UA7231			\$824,197.05

University of Idaho
Itemized Expenditures
From 7/1/2024 through 11/20/2025

Grant: UA8090 - ISBOE IGEM HERC: Secu Cybersp FY25

Index: 855871 - ISBOE IGEM HERC: Secu Cybersp FY25
Fund: 228090 - ISBOE IGEM HERC: Secu Cybersp FY25

Salaries				
E4108 Summer Salary				
	Borrelli, Robert	160	Hours	\$11,584.00
	Kolias, Konstantinos	200	Hours	\$14,400.00
E4109 IA/GA Salary				
	Berhanu, Tollan	352	Hours	\$8,800.00
	Tadele, Henok	736	Hours	\$17,222.40
				\$52,006.40
Temporary Help				
E4135 Temporary Student				
	Berhanu, Tollan	210	Hours	\$5,250.00
	Li, Longze	160	Hours	\$3,840.00
				\$9,090.00
Fringe Benefits				
	E4280 Faculty CFR Benefit Expense			\$7,920.12
	E4282 Student CFR Fringe Expense			\$805.93
				\$8,726.05
Travel				
E5365 Personal Vehicle - Out-of-State				
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$27.71
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$27.87
E5368 Rental Vehicles - Out-of-State				
6/27/2025	Z1099154	Car Rental Fuel 06052025	Doc Ref: 45155981	\$26.82
6/27/2025	Z1099154	JacobT 155981 Enterprise. car renta	Doc Ref:	\$336.79
E5381 Airfare - Out-of-State				
6/5/2025	Z1097049	TJacobsen 605873 American Air trave	Doc Ref:	\$373.37
8/18/2025	Z1101249	JacobT 189606 Enterprise. Toll whil	Doc Ref:	\$5.80
8/18/2025	Z1101249	TJacobsen 189606 Enterprise Rent a	Doc Ref:	\$25.87
10/16/2025	Z1103875	TJacobsen 728740 American Airlines.	Doc Ref:	\$660.36
E5397 Lodging & Per Diem – Out of State				
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$60.00
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$80.00
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$80.00
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$80.00
6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$47.00

6/27/2025	I2339826	Jacobsen, Thomas Arley.		\$80.00
6/27/2025	Z1099154	JacobT 155981 Aloft. Hotel accomod	Doc Ref:	\$122.00
6/27/2025	Z1099154	JacobT 155981 Courtyard. Hotel stay	Doc Ref:	\$144.00
6/27/2025	Z1099154	JacobT 155981 Fairfield. City tax f	Doc Ref:	\$1.26
6/27/2025	Z1099154	JacobT 155981 Fairfield. Hotel acco	Doc Ref:	\$126.00
6/27/2025	Z1099154	JacobT 155981 Fairfield. Hotel acco	Doc Ref:	\$122.00
6/27/2025	Z1099154	JacobT 155981 Fairfield. Room tax f	Doc Ref:	\$8.82
6/27/2025	Z1099154	JacobT 155981 Fairfield. Room tax f	Doc Ref:	\$1.26
6/27/2025	Z1099154	JacobT 155981 Fairfield. Room tax f	Doc Ref:	\$8.82
6/27/2025	Z1099154	JacobT 155981 Fairfield. Room tax f	Doc Ref:	\$126.00
				\$2,571.75

Operating Expenses

E5020 Postage & Mailing

7/30/2025	TC073025	TDX455028 Ship to CDA		\$53.17
8/14/2025	TC081425	TDX455031 Ship to CDA		\$29.49

E5560 Technology - Supplies

5/27/2025	Q0117097	Amazon Capital FLASHFORGE 3D Printer Filament,		\$119.94
5/27/2025	Q0117097	Amazon Capital FLASHFORGE 3D Printer Filament,		\$41.70
6/16/2025	I0584779	Amazon Capital Services Inc		\$0.00
6/16/2025	I0584779	Amazon Capital Services Inc		\$0.00

E5710 Tools

5/28/2025	Q0117256	Amazon Capital Ball End Hex Bit Set - Railer 2 Inch		\$19.99
5/28/2025	Q0117256	Amazon Capital M12 Fuel 12V 1/4" Lithium-ion		\$162.50
5/29/2025	Q0117491	Amazon Capital 3D Printer Tool Kit Essential 3D		\$41.99
5/29/2025	Q0117491	Amazon Capital Gonex 3600 Tackle Trays 4 Packs,		\$23.74
6/17/2025	I0584854	Amazon Capital Services Inc		\$0.00
6/17/2025	I0584854	Amazon Capital Services Inc		\$0.00
6/18/2025	I0585139	Amazon Capital Services Inc		\$0.00
6/18/2025	I0585139	Amazon Capital Services Inc		\$0.00

E5720 Educational Supplies

6/23/2025	Z1098349	JacobT 308552 Alphagraphics. Educat	Doc Ref:	\$15.85
6/27/2025	Z1099155	JacobT 260568 Bambulab. 3D printer	Doc Ref:	\$987.94
6/27/2025	Z1099155	JacobT 260568 SparkFun. Robotic com	Doc Ref:	\$541.50
6/27/2025	Z1099155	JacobT 260568 SparkFun. Robotic com	Doc Ref:	\$551.00
8/5/2025	Z1100742	JacobT 747607 HighCountryGlass. Ple	Doc Ref:	\$140.00
9/2/2025	Q0133246	Amazon Capital 3D Printing GT2 Timing Belt, Zeelo		\$90.93
9/2/2025	Q0133346	Amazon Capital 【2025 Special Bundle】SUNLU Official		\$134.99
9/2/2025	Q0133380	Amazon Capital 1000 Pcs White Zip Ties, 6 Inch		\$16.96
9/2/2025	Q0133380	Amazon Capital 3D Printing GT2 Timing Belt, Zeelo		\$77.94
9/2/2025	Q0133390	Amazon Capital 3D Printing GT2 Timing Belt, Zeelo		\$90.93
9/2/2025	Q0133380	Amazon Capital BNUOK 180pcs M3 x 25mm Hex		\$9.49
9/2/2025	Q0133390	Amazon Capital BNUOK 180pcs M3 x 25mm Hex		\$37.96
9/2/2025	Q0133386	Amazon Capital GBA-SZC GT2 Idler Pulley 16 Teeth		\$23.96
9/2/2025	Q0133378	Amazon Capital GBA-SZC GT2 Idler Pulley 16 Teeth		\$11.98
9/2/2025	Q0133380	Amazon Capital Gonex 3600 Tackle Trays 4 Packs,		\$25.64
9/2/2025	Q0133390	Amazon Capital LeTaoXing 9V 5A Power Adapter		\$158.40
9/2/2025	Q0133380	Amazon Capital LeTaoXing 9V 5A Power Adapter		\$17.60
9/2/2025	Q0133380	Amazon Capital SUNLU Official Filament Connector,		\$38.24
9/2/2025	Q0133380	Amazon Capital WWZMDiB 5 Pcs DS18B20		\$9.99
9/2/2025	Q0133378	Amazon Capital XIKE 10 Pcs 6701-2RS Bearings		\$17.98
9/4/2025	Q0133769	Amazon Capital 180Pcs M3x8mm Hex Socket Head		\$11.98
9/4/2025	Q0133776	Amazon Capital 180Pcs M3x8mm Hex Socket Head		\$23.96
9/4/2025	Q0133777	Amazon Capital 180Pcs M3x8mm Hex Socket Head		\$17.97
9/4/2025	Q0133778	Amazon Capital 180Pcs M3x8mm Hex Socket Head		\$23.96

[illegible]

[illegible]

5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/26/2025	!0582890	Amazon Capital Services Inc	\$0.00
5/27/2025	!0582941	Amazon Capital Services Inc	\$0.00
5/27/2025	!0582941	Amazon Capital Services Inc	\$0.00
5/30/2025	B1951216	Home Depot Pro	\$0.00
6/10/2025	B1951705	Home Depot Pro	\$0.00
6/11/2025	Q0119924	Amazon Capital XOOL 62 in 1 Precision Screwdriver	\$12.58
6/12/2025	Q0120256	Amazon Capital Gonex 3600 Tackle Trays 4 Packs,	\$25.64
6/12/2025	Q0120256	Amazon Capital Stemedu 5PCS Capacitive Analog Soil	\$8.46
6/16/2025	Q0120945	Amazon Capital 9V 5A Power Supply, COOLM 9V 5A	\$159.00
6/16/2025	Q0120941	Amazon Capital BZ 3D GT2 Idler Pulley 16 Teeth	\$43.92
6/16/2025	Q0120946	Amazon Capital Railer 20pc Screwdriver Bit Set -	\$18.50
6/16/2025	Q0120946	Amazon Capital Stemedu 5PCS Capacitive Analog Soil	\$33.84
6/18/2025	Q0121414	Amazon Capital Railer Allen Wrench Hex Bit Set 2	\$18.50
6/18/2025	Q0121414	Amazon Capital Stemedu 5PCS Capacitive Analog Soil	\$42.30
7/1/2025	!0586250	Amazon Capital Services Inc	\$0.00
7/2/2025	!0586493	Amazon Capital Services Inc	\$0.00
7/2/2025	!0586493	Amazon Capital Services Inc	\$0.00
7/7/2025	!0586646	Amazon Capital Services Inc	\$0.00
7/7/2025	!0586646	Amazon Capital Services Inc	\$0.00
7/7/2025	!0586646	Amazon Capital Services Inc	\$0.00
7/7/2025	!0586646	Amazon Capital Services Inc	\$0.00
7/7/2025	!0586646	Amazon Capital Services Inc	\$0.00
7/8/2025	!0586704	Amazon Capital Services Inc	\$0.00
7/8/2025	!0586704	Amazon Capital Services Inc	\$0.00
E5747 Safety Supplies			
10/8/2025	Z1103230	Robot safety supplies. Doc Ref: 47071478	\$2,345.00
E5799 Other Insurance			
8/14/2025	TC081425	TDX455031 3-4yr wrnty	\$327.00
			\$8,723.53

\$5K or > Capital Outlay

E6410 >5K Technology Equip - Office/Deptl			
9/19/2025	J1386388	TDX467700 8-M3 Ultra+16-M4 Max kjw	\$160,536.00
E6520 >5K Educational Equipment			
10/17/2025	Q0141275	Mouser Electron Diligent Programmable Logic IC	\$2,990.00
10/17/2025	Q0141275	Mouser Electron NewAE Technology Development	\$400.00
10/17/2025	Q0141276	Mouser Electron NewAE Technology Development	\$1,400.00
10/17/2025	Q0141275	Mouser Electron NewAE Technology Development	\$12,600.00
10/17/2025	Q0141275	Mouser Electron NewAE Technology Programmable	\$6,437.50
10/17/2025	Q0141275	Mouser Electron NewAE Technology Programmable	\$650.00
10/17/2025	Q0141276	Mouser Electron freight	\$1.99
10/17/2025	Q0141275	Mouser Electron freight	\$247.60
10/27/2025	!0599446	Mouser Electronics, Inc.	\$0.00
10/28/2025	!0599663	Mouser Electronics, Inc.	\$0.00
10/28/2025	!0599663	Mouser Electronics, Inc.	\$0.00

10/28/2025	!0599663	Mouser Electronics, Inc.	\$0.00
10/28/2025	!0599663	Mouser Electronics, Inc.	\$0.00
10/28/2025	!0599663	Mouser Electronics, Inc.	\$0.00

\$185,263.09

< \$5K Non-Capital Outlay

E7810 <5K Technology Equip - Office/Deptl

6/5/2025	J1379013	TDX429171 7-Surface+7-MBA+ship kjw	\$31,928.75
7/30/2025	TC073025	TDX455028 3-TS P3 Tiny	\$2,985.00
8/7/2025	Q0129337	Amazon Capital SAMSUNG Pro 75" 4K WMB	\$7,783.80
8/14/2025	TC081425	TDX455031 3-iPad Wi-Fi	\$987.00
8/27/2025	!0592178	Amazon Capital Services Inc	\$0.00

E7860 <5K Educational Equipment

9/16/2025	Q0135481	B&H Photo-Video EpiqVision Ultra LS650 3600-Lumen	\$2,294.99
10/6/2025	B1958525	B&H Photo-Video, Inc.	\$0.00

\$45,979.54

Trustee/Benefits

E7140 Tuition and Fees - Grad Assistants

9/6/2024	J1362409	GRFT for V00894165	\$804.86
9/6/2024	J1362409	SHI1 for V00894165	\$1,022.34
9/6/2024	J1362409	TFGR for V00894165	\$4,221.33
9/6/2024	J1362409	VVSF for V00894165	\$92.94
1/28/2025	J1371039	GRFT for V00894165	\$866.00
1/28/2025	J1371039	SHI2 for V00894165	\$1,100.00
1/28/2025	J1371039	TFGR for V00894165	\$4,542.00
1/28/2025	J1371039	VVSF for V00894165	\$100.00
2/1/2025	J1371004	GRFT for V00978865	\$866.00
2/1/2025	J1371004	SHI2 for V00978865	\$1,100.00
2/1/2025	J1371004	TFGR for V00978865	\$4,542.00
2/1/2025	J1371004	VVSF for V00978865	\$100.00

\$19,357.47

Totals for 228090

\$331,717.83

Index: 855869 - ISBOE IGEM HERC Cyberspace-ISU FY25
Fund: 228288 - ISBOE IGEM HERC Cyberspace-ISU FY25

Subcontracts

ES001 Subaward 1 Expenses			
6/16/2025	Q0120909	Idaho State Uni salary, fringe and materials for Award	\$14,497.73
			\$14,497.73
Totals for 228288			\$14,497.73
Totals for UA8090			\$346,215.56