Dr. Sayeed Sajal

Associate Professor (Tenured),
Room CS 519B,
Department of Computer Science,
Program Co-Ordinator, Secure Computing, Computer Science,
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Network, Security & Research Lab: AREA 51
Department of Computer Science,
Utah Valley University,
800 W University Pkwy, Orem, UT- 84058

Awards & Honors

- 2024 Faculty Champion of Inclusion Awarded by Office of Inclusion, UVU
  - It was awarded to recognize **extra-ordinary contributions** for Inclusion at UVU.
- 2024 Global Spotlight Fellow Awarded by Global Events & Engagement, UVU
  - It was awarded for **exceptional contributions** organizing global events and increase engagement.
- 2024 Global Spotlight Initiative Award by Global Events & Engagement, UVU
  - It was awarded for organizing "**International Mother Language Day**," which promotes diversity and inclusion.
- 2023 Faculty Excellence Award, UVU
  - It is a university-level award for **exceptional performance** in teaching, scholarship and service.
- 2022 Global Spotlight Initiative Award by Global Events & Engagement, UVU
  - It was awarded for organizing "**International Mother Language Day**," which promotes diversity and inclusion.
- 2020 Cyber Training Curriculum Development Mini-Grant funded by NSF
  - Awarded for developing the curriculum on "**Data Privacy & Security**."
- 2020 Cyber Security Workshop Mini-Grant funded by NSF
  - Awarded for organizing and leading a "**Cyber Security**" workshop for the students and community.
- 2019 Governor's Roaming Bison Award
  - For excellence in public service for the K-20W **Cyber Security initiative**.
- 2019 Cyber Training Curriculum Development Mini-Grant funded by NSF
  - Awarded for developing the curriculum on "**Ethical Hacking**."

- 2019 Cyber Security Workshop Mini-Grant funded by NSF
  - Awarded for organizing and leading a "**Cyber Security**" workshop for the students and community.
- 2018 Cyber Training Curriculum Development Mini-Grant funded by NSF
  - Awarded for developing the curriculum on "**Applied Cryptography**."
- 2018 Cyber Security Workshop Mini-Grant funded by NSF
  - Awarded for organizing and leading a "**Cyber Security**" workshop for the students and community.
- 2017 TEDxNDSU Speaker
  - Invited speaker at **2017 TEDxNDSU**, Fargo, ND, USA
- 2016 Global Sights Photography Competition at MSU
  - I got the "Honorable Mention" award for the photograph **"Beauty of Silence."**
- 2016 Clinton Global Initiative University, Berkeley, CA, USA
  - Got the initial fund to kick-start the **innovative idea to impact globally**
- 2016 Tapestry of Diverse Talents, NDSU, ND, USA
  - Awarded for **promoting diversity** not only in North Dakota but also in the world
- 2016 NDSU Innovation Challenge, Fargo, ND, USA
  - Won 3rd position in **Social Impact Track**
- 2015 3-Minutes Thesis Competition, Fargo, ND, USA
  - I was selected to present my **MS thesis on "Battery-less Moisture Sensor."**
- 2014 IEEE Electro/Information Technology Conference, Milwaukee, WI, USA
  - **Best Paper Award** for my paper on "A Low-Cost Flexible Passive UHF RFID Tag for Sensing Moisture Based on Antenna Polarization."
- 2013 IMAPS NDSU Microelectronics Summit, Fargo, ND, USA
  - **Won the 3rd prize** for my poster presentation on "Moisture Sensor using the Polarization of the Dipole Antenna."
- Bangladesh University of Engineering & Technology, Dhaka, Bangladesh
  - **Education Board scholarship** for education excellence

Education:

Business Certificate on "Organizational Leadership" **August 2024**
Harvard Business School,
Harvard University, Cambridge, Massachusetts, USA

Ph. D. in Electrical & Computer Engineering **April 2017**
North Dakota State University, Fargo, North Dakota, USA
Research Area: Electromagnetism, Microwave, Sensor, Antennas, and RFID

Ph.D. Dissertation Reference: Sajal, Sayeed Zebaul Haque. *Conformal Antennas and Arrays with Layers Consisting of Copper and Graphene-based Conductors for Redundancy Properties*. Diss. North Dakota State University, 2017.

Master of Science in Electrical & Computer Engineering **April 2014**
North Dakota State University, Fargo, North Dakota, USA

MS Thesis Reference: Sajal, Sayeed Zebaul Haque. *Low-cost passive UHF RFID tags on paper substrates*. Diss. North Dakota State University, 2014. "

Master of Business Administration in Finance & Marketing **August 2009**
East West University, Dhaka, Bangladesh
Coursework: Investment Theory, Corporate Finance, Market research, Brand & Strategic management

Bachelor of Science in Electrical and Electronic Engineering **December 2007**
Bangladesh University of Engineering & Technology, Dhaka, Bangladesh
Thesis: "Performance analysis of a WDM Channel using the M-level plan as a modulation technique in the presence of crosstalk."

Employment and Research Experience

Academic Leadership:

Associate Director for Cybersecurity **September 2024 - Present**
Center for National Security Studies,
Utah Valley University

Co-Chair, Institutional Engagement & Effectiveness **August 2024 – Present**
Utah Valley University

Department Coordinator, Accreditation Board for Engineering and Technology (ABET) **January 2024 - Present**
Department of Computer Science, Utah Valley University

Program Coordinator, Secure Computing **August 2023 - Present**
Department of Computer Science,
Utah Valley University

Member of Utah Valley Senior Executive Leadership Forum (UVSELF). **May 2024 – May 2025**
Utah Valley University

Faculty Senate **August 2022 – June 2025**
Utah Valley University

Chair, UVU Showcase **August 2021 – June 2025**
Utah Valley University

Co-Chair, Scholarly and Creative Undergraduate Learning Partnership Team (SCULPT) **August 2021 – June 2025**
Utah Valley University

Co-Chair, CET Inclusion and Engagement **August 2021 – June 2025**
College of Engineering and Technology, Utah Valley University

Director for Secure Computing Program **January 2022 – August 2024**
Center for National Security Studies,
Utah Valley University

Program Coordinator, Networking **August 2020 - July 2023**
Department of Computer Science,
Utah Valley University

Academic (Teaching):

Associate Professor, Computer Science **July 2025 –Present**
Utah Valley University (No of Enrolled Students: 47 K) **Orem, Utah, USA**

Associate Professor with full classroom responsibilities.

- Data Privacy & Security (CS 3100) – Fall 2025 and Spring 2026
- Secure Computing Capstone (CS 4200) – Fall 2025 and Spring 2026

Assistant Professor, Computer Science **July 2020 –June 2025**
Utah Valley University (No of Enrolled Students: 47 K) **Orem, Utah, USA**

Assistant Professor with full classroom responsibilities.

- Numerical Software Development (CS 3320) – Summer 2021, Summer 2022, Summer 2023
- Data Privacy & Security (CS 3100) – Fall 2021, Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024, Spring 2025
- Computer Networks I (CS 2600) – Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023
- Computer Networks II (CS 2690) – Fall 2020, Spring 2021, Spring 2022
- Undergraduate Research Project for Networking Specialization (CS 4670) – Spring 2021, Spring 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024
- Internship (CS 481R, CS 281R) – Spring 2023
- Secure Computing Capstone (CS 4200) – Spring 2025

Assistant Professor, Computer Science **August 2016 – July 2020**
Minot State University (No of Enrolled Students: 2.8 K) **Minot, ND, USA**

Assistant Professor with full classroom responsibilities.

- Ethical Hacking (CSci 390) – Spring 2020
- Applied Cryptography (CSci 425) -Spring 2019
- Computer Organization (CSci 370) – Spring 2017, Spring 2018, Spring 2019, and Spring 2020
- Social Implications (CSci 331) – Spring 2018 and Spring 2020
- Discrete Mathematics (Math 208)- Fall 2018 and Fall 2019
- Software Engineering & Testing (CSci 330) – Spring 2017 and Spring 2019
- Computer & Digital Hardware I (CSci 275) – Fall 2016, Fall 2017, Fall 2018, and Fall 2019

- Computer Science I (CSci 160) – Fall 2016, Spring 2017, Fall 2017, Fall 2018, Fall 2019
- Introduction to Web Languages (CSci 111) – Fall 2016, Fall 2017
- First-Year Experience: How to be a Techy? (UNIV 110) – Fall 2017

Instructor, Principles of Engineering Design **June 2016 – August 2016**
Johns Hopkins University, CTY Program **San Rafael, CA, USA**

Instructor with full classroom responsibilities.

- Principles of Engineering Design – Summer 2016

Teaching / Research Assistant **August 2014 – May 2016**
Department of Electrical and Computer Engineering,
North Dakota State University **Fargo, ND, USA**

Graduate Teaching/ Research Assistant

- Electrical Engineering (ECE 306) – Fall'14, Spring'15, Fall'15, and Spring'16
- Applied Electromagnetics (ECE 351) – Fall'14, Spring'15, and Fall'15

Instructor, Introduction to Robotics **June 2015 – August 2015**
Johns Hopkins University, CTY Program **Bristol, RI, USA**

Instructor with full classroom responsibilities.

- Introduction to Robotics – Summer 2015

Instructor, Summer STEM Camp **June 2015 – June 2015**
College of Engineering, North Dakota State University **Fargo, ND, USA**

Instructor with full classroom responsibilities.

- The Beauty of Electricity and Wireless Communication– Summer 2015

Mentor, Undergraduate Research **August 2013 – July 2014**
Department of Electrical and Computer Engineering,
North Dakota State University **Fargo, ND, USA**

Mentoring undergraduate senior design project fabricating the PCB board and 3D objects

- Design I (ECE 401) – Fall 2013 & Spring 2014
- Design II (ECE 403) – Fall 2013 & Spring 2014
- Design III (ECE 405) – Fall 2013 & Spring 2014

Grader **August 2012 – December 2012**
Department of Electrical and Computer Engineering,
North Dakota State University **Fargo, ND, USA**

Grader with grading responsibilities.

- Circuit Analysis II (ECE 311) – Fall 2012

Academic (Course/Curriculum/Program Development):

Course Development:

- Ethical Hacking Tools Dev (CS 3120) – Designed the outline.
- Network & Cloud Security (CS 3140) -- Designed the outline.
- Security Vulnerability Analysis (CS 4120) -- Designed the outline.
- Secure Computing Capstone (CS 4200) – Fall 2024, Utah Valley University
- Computer Networks (CS 2600) new version – Summer 2024, Utah Valley University
- Applied Cryptography (CS 3110) – Spring 2024, Utah Valley University
- Computer Networks (CS 2600) old version – Spring 2022, Utah Valley University
- Data Privacy and Security (CS 3100) – Fall 2021, Utah Valley University
- Ethical Hacking (CSci 390) – Spring 2020, Minot State University
- Applied Cryptography (CSci 425) -Spring 2019, Minot State University

Course Mentor:

- Computer Networks I (CS 2600)
- Computer Networks II (CS 2690)
- Data Privacy and Security (CS 3100)
- Applied Cryptography (CS 3110)
- Network Programming (CS 3670) -- Sunsetting
- TCP/IP Internet Architecture (CS 4610) -- Sunsetting
- Undergraduate Research Project for Networking Specialization (CS 4670) -- Sunsetting

Curriculum/Program Development:

- BS in Computer Science Secure Computing emphasis – (Developed and Activated)
- BS in Secured Computing, Utah Valley University (Under development, Budget approved at university level and UCC recommended to have emphasis instead)
- BS in Computer Science Network Security Emphasis, Utah Valley University (Transformed to Secure Computing emphasis)
- BS with a major in Cybersecurity and Operations, Minot State University (Developed)

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Academic (Research):

Grant and Funding:
Total: $26,677,124 (~26.677 Millions)

- 2024 Deep Technology Initiative from Intermountain, Intelligence, Industry, and Security Consortium to secure Utah's Deep Technology Sector On-going Funding [Co-PI/SP], 10/01/2024 – TBD, amount of **$1,624,424 [On-Going Funding]**
- Secured 2024 International Mother Language Day sponsor from the Office of Inclusion and Diversity **$3000 [Funded]**
- 2024 Global Spotlight Initiative Award **$1500 [Funded]**
- 2023 Cengage Computing Experience Conference Travel Grant at Orlando, FL in October 2023 **$1200 [Funded]**
- 2023 Machine Learning for Computer Science (ML4CS) Workshop at Kennesaw State University Travel Grant in July 2023 **$1000 [Funded]**
- 2023 Grant Networking Event travel grant **$1600 [Funded]**
- 2023 NCWIT travel grant **$600 [Funded]**
- Secured 2023 International Mother Language Day sponsor from the Department of Languages and Cultures **$2500 [Funded]**
- Secured 2023 International Mother Language Day sponsor from the Office of Inclusion and Diversity **$1500 [Funded]**
- 2022 Global Spotlight Initiative Award **$1078 [Funded]**
- 2022 SCULPT **$750** Travel Mini-Grant **[Funded]**
- 2021 Deep Technology Initiative from Intermountain, Intelligence, Industry, and Security Consortium to secure Utah's Deep Technology Sector [Co-PI/SP], 10/15/2021- 10/15/ 2024 amount of **$5,013,900 [Funded]**
- 2021 GEL Singular Grant: A secured and Convenient Central Repository for Health Care Services and Electronic Medical Records - Foundation for Forward-thinking Initiatives (PI), Period Covered: 10/01/2021 – 06/30/2022 amount of $9,860 [Reviewed, Not Funded]
- 2021 GEL Quick Grant: Conversion from Riverbed Modeler Academic Edition to GNS -- Updated UVU CS Networking Labs to Improve Students' Engagement (PI), Period Covered: 06/01/2021 – 06/30/2021 amount of **$1573 [Funded]**
- 2021 Undergraduate Research Summer Institute Grant (URSIG): A Location-Based Secured Central Repository for Health Care Services - Foundation for Forward-thinking Initiatives (PI), Period Covered: 05/13/2021 – 08/13/2021 amount of $5,500 [Reviewed, Not Funded]
- 2020 NSF MRI Proposal (Major Collaborator): Acquisition of a High-Performance Computing System for Scientific Research and Education at NDSU (PI), [Reviewed, Not Funded]
- 2020 Cyber Training Curriculum Development Mini-Grant **$3000 [Funded by NSF]**
- 2020 Cyber Security Workshop Mini-Grant **$500 [Funded by NSF]**
- 2019 ND EPSCoR Collaborative Research (PI): Analysis and Simulation of Historical Flooding in Fargo, North Dakota, United States, Period covered: 10/15/19 - 05/15/20 amount of **$9,999 [Funded]**

- 2019 NSF EPSCoR RII Track-2 FEC Proposal (Co-PI): RII Track-2 FEC: Data-driven Plastic Advancements through Statistics, Inquiry, and Computing (D-PlAStIC), Period covered: 08/01/20 - 07/31/24, amount of $5,820,583 [Reviewed, Not Funded]
- 2019 NSF EPSCoR RII Track 1 Proposal: ND-ACES (Co-PI/ SP): New Discoveries in the advanced interface of Computation, Engineering, and Science, Period covered: 08/01/20 - 07/31/25, amount of **$20,000,000 [Funded]**
- 2019 NSF MRI Proposal (Major Collaborator): Development of a Computing Capacity for Cybersecurity and Informatics Research and Education [Reviewed, Not Funded]
- 2019 Cyber Training Curriculum Development Mini-Grant **$3000 [Funded by NSF]**
- 2019 Cyber Security Workshop Mini-Grant **$500 [Funded by NSF]**
- 2018 NSF EPSCoR RII Track 1 Proposal: ND-ACES (Co-PI/SP): New Discoveries in the advanced interface of Computation, Engineering, and Science, Period covered: 08/01/19 - 07/31/24, amount of $20,000,000 [Reviewed, Not Funded]
- 2018 Cyber Training Curriculum Development Mini-Grant **$5000 [Funded by NSF]**
- 2018 Cyber Security Workshop Mini-Grant **$500 [Funded by NSF]**
- 2017 NASA CAN Pre-proposal (Co-PI): Jointly with NDSU and UND on "Multi-functional Antennas for Small Satellites," amount of $749,318 [Not Funded]
- 2017 NSF MRI Proposal: Acquisition of High-Resolution 3D Printer for Electrical, Biomedical, and Material Research, amount of $162,500 [Not Funded]

On approval, it brings more research funds and research opportunities for undergrad students.

Funded Research:

Funded Project 1: Seamless UVU Parking Solution [Funded by NSF]
Funding Period: 1/22 – 7/22

Objective 1:
To develop a solution to find an available UVU parking efficiently.

Funded Project 2: Analysis and Simulation of Historical Flooding in Fargo, North Dakota, United States.
Funding Period: 10/19 – 05/20

Objective 1:
Compute the critical flow condition (velocity/drag/shear stresses) from simulation results to identify potential impacts of wetlands on the flow field.

Objective 2:
Develop a data-driven model using machine learning algorithms.

Funded Project 3: To develop bio-degradable sensors that sense moisture, temperature, and nitrogen level in the soil, which helps the growers to know the soil conditions accurately.
Funding Period: 01/16 – 08/16

Objective 1:
Focus on wirelessly developing a communication device that senses soil conditions (moisture,

temperature, and nitrogen level).

Objective 2:
To make the sensors bio-degradable so that they can be environment-friendly.

Funded Project 4: Fundamental Research on Electromagnetic - Responsive Metamaterials for High-Efficient **Mobile Cyber-Physical Systems**," funded by the Inter-Institutional Collaboration Fund between ND and SD.
Funding Period: 07/13 – 06/14

Objective 1:
Focus on characterizing the bulk carbon micro-fiber composites' mechanical, thermal, and radiation properties for the Electromagnetic-Responsive Mobile Cyber-Physical System (E-RMCPS).

- Different samples (i.e., unidirectional, woven carbon fiber) were made to study how the carbon fiber and the matrix affect the signal's amplitude, frequency, and noise.

Objective 2:
This objective aims to design a transmission line with different substrates and obtain the return loss.

- The study showed that the bandwidth of the transmission line with different substrates was vast and can be helpful in this work! Also, increasing the thickness of the strip and ground did not change the return loss.

Objective 3:
To test the idea of MEMS-based magnetic switches for composite materials.

- The structure proposed was used in the Electromagnetic-Responsive Mobile Cyber-Physical System (E-RMCPS) to improve the wireless communication system efficiency within a battery-powered device.
- The S-parameters were studied on four samples of different combinations of fibers and matrix.

Funded project 5: Develop a low-cost wireless moisture sensor.
Funding Period: 07/13 – 06/14

I designed a low-cost battery-less moisture sensor that can sense moisture based on frequency shifting. The unique design was submitted to the Technology Transfer Office for review.

Undergraduate Research Assistant:

- Quinton Carlisle, Utah Valley University
- Jefferson Evans, Utah Valley University
- Ethan Roundy, Utah Valley University
- SueAnn Van Valkenburg, Utah Valley University
- Ziad Kadry, Minot State University
- Confidence Idim, Minot State University

Capstone Project:

- Nyles Durfey, Utah Valley University
- Kalubi Nemese, Utah Valley University
- Clay Keisel, Utah Valley University
- Reid Kuttler, Utah Valley University
- Jackson Lauder, Utah Valley University
- Jonathan Neilan, Utah Valley University
- Curtis Tervort, Utah Valley University
- Stephen Bos, Utah Valley University
- Robert McCann, Utah Valley University
- Katherine Nieman, Utah Valley University
- Carston Dustrap, Utah Valley University
- Jon Kim, Utah Valley University
- Brek'n Shumway, Utah Valley University
- Mitchell Southwick, Utah Valley University
- Korey Kenison, Utah Valley University
- Jeanlin Kalonji, Utah Valley University
- Christopher Breinholt, Utah Valley University
- Ethan Olsen, Utah Valley University
- Jarod Day, Utah Valley University
- Brandon Edwards, Utah Valley University
- Tait Draper, Utah Valley University
- Arza Henrie, Utah Valley University
- Cassidy Jensen, Utah Valley University
- Isaac Johnson, Utah Valley University
- Andrew Moscrip, Utah Valley University
- Alexis Perex, Utah Valley University
- June Walker, Utah Valley University
- Garret Christensen, Utah Valley University

Independent Study:

- David Timmons, Utah Valley University
- Ian Welker, Utah Valley University

Other Research /Projects:

- Cyber-Physical System and Cyber Security
- Machine Learning and Data Mining
- Image Analysis
- Sensor Design
- Radio Frequency Identification (RFID)
- Computational Electromagnetics

- Issues in Electromagnetic Compatibility
- Radio Frequency (RF) Sensor Networks

Industrial Experience:

Senior System Engineer, Network Planning **May 2008 – Aug 2012**
Telenor ASA, Grameenphone Limited (84.3 M subscribers Base) **Dhaka, Bangladesh**

- Effectively managed the capacity requirements of the core network to ensure continuous improvement of network quality.
- Based on my evaluation of their impacts and applications, I recommended new technologies, which proved beneficial on deployment into the core network.
- I proposed the proper timing in implementing new technology into the core network to lead the competitive market.
- Successfully applied business knowledge in evaluating upcoming projects and performing the necessary business case analysis to secure further investment.
- Assured ample long-term network capacity, using statistical tools to forecast an increase in end-user demand
- Designed the IP/MPBN network, which ensured its capacity for accommodating new network elements
- Employed project management skills in leading workers to complete time-sensitive projects on time.
- Led cross-functional team to share technology across departments to improve operational efficiency
- I collaborated with vendors and other cross-functional teams to ensure meeting goals.
- Successfully applied leadership skills to make a pleasant working environment by mentoring new employees.

System Engineer, Network Operation **Oct 2007 –May 2008**
Telenor ASA, Grameenphone Limited (84.3 M subscribers Base) **Dhaka, Bangladesh**

- Performed maintenance and troubleshooting of routers, switches & other elements of the backbone network to ensure uninterrupted service to end-users.
- It is tuned and configured core & radio network parameters to provide the best network quality.
- Ensured quality by preventive maintenance of sites, optical fiber, & network elements to secure an uninterrupted network.
- Facilitated field support to team members during fault handling to provide a better network.

Selected Industry Projects:

Flexible Data Charging Project: **Jun 2009 –Jul 2010**

Project Objective:

- Flexible data charging, e.g., time-based charging, volume cap-based charging, URL-based charging, etc.
- Ability to design/offer differentiated data products for customers, increase GP's revenue, and increase

customer satisfaction
- Readiness for future generation data services based on 3G and WiMAX technologies

Solution:
Ericsson SACC solution - consists of E/// SAPC(=PCRF) and SASN (=PCEF) and Ericsson Multi Mediation

My Roles:
Solution evaluation and selection, Support Design, Function as technical lead for implementation, both from the core network planning end and in ensuring integration with IT provisioning and customer-facing systems

Data optimization and multi-service GW: **Mar 2010 –Jan 2011**

Project Objective:
- BW Optimization in the Core network, resulting in CAPEX and OPEX savings in the entire network.
- Faster and better browsing experience for the end-user
- Content download through one access point name (APN) for Internet and WAP services
- SWAP existing WAP GW and PPG

My roles:
Technical lead for Packet Core Planning; ensure service continuity for internet, WAP services, MMS service, and content download service; support the MPBN design; define the policies for optimization of services and better end-user experience; ensure smooth integration of new platforms with network and IT systems and with content providers' platforms.

Publications:

Journals/Conference Proceedings:

71. Jeanlin Kalonji and **Sayeed Sajal,** "Security Enhancement on Network Access Control (NAC)," presented at the 2025 i-ETC conference, May 9-10, 2025, Orem, UT, USA.

70. Brek'n Shumway, and **Sayeed Sajal**, "Raspberry Pi: AWS Automated Smart Greenhouse," presented at the 2025 i-ETC conference, May 9-10, 2025, Orem, UT, USA.

69. Carston Dastrup, and **Sayeed Sajal,** "Using Android to Showcase Arduino as a Powerful IOT Device," presented at the 2025 i-ETC conference, May 9 - 10, 2025, Orem, UT, USA.

68. Ashton Walden and **Sayeed Sajal**, "A Global Pandemic's Effect on Mobile Device Security,", presented at the UCUR conference, February 16, 2024, Orem, UT, USA.

67. Spencer Thompson and **Sayeed Sajal**, "Crafting Secure System Messages", presented at the UCUR conference, February 16, 2024, Orem, UT, USA.

66. Asmaa Alsharif and **Sayeed Sajal**, “Ransomware Resilience and Ethical Dilemmas: A Comprehensive Review of Threat Landscape, Impact, and Mi ga on Strategies,”, presented at the UCUR conference, February 16, 2024, Orem, UT, USA.

65. Katherine Nieman, and **Sayeed Sajal,** “A Comparative Analysis on Load Balancing and gRPC Microservices in Kubernetes,” presented at the 2023 i-ETC conference, May 12-13, 2023, Provo, UT, USA.

64. Kolin Neilson, and **Sayeed Sajal**, “Art of RFID Hacking,” presented at the 2023 i-ETC conference, May 12-13, 2023, Provo, UT, USA.

63. Mary Corbett, and **Sayeed Sajal,** “AI in Cybersecurity,” presented at the 2023 i-ETC conference, May 12-13, 2023, Provo, UT, USA.

62. I. Parvez, L. Leon, N. Contreras, F. Polanco, E. Fentry and **S. Sajal**, "CO2 Emission Forecasting for Living Standards in Smart Cities," IEEE SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 187-192, doi: 10.1109/SoutheastCon51012.2023.10115183.

61. L. Leon, N. Contreras, F. Polanco, E. Fentry, **S. Sajal** and I. Parvez, "A Skin Sensor for Epileptic Seizure Detection and Notification Applications," IEEE SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 118-125, doi: 10.1109/SoutheastCon51012.2023.10114958.

60. Connor Scott and **Sayeed Sajal**, “A Review of The Use of Machine Learning in Cybersecurity and Cyber Attacks”, presented at the UCUR conference, February 17, 2023, Salt Lake City, UT, USA.

59. Christopher Wilkinson and **Sayeed Sajal**, “Unleashing the Power of USB Keystroke Injection: A Study on Cybersecurity Implications”, presented at the UCUR conference, February 17, 2023, Salt Lake City, UT, USA.

58. Russell Wardsworth and **Sayeed Sajal**, “Spear Phishing Simulation”, presented at the UCUR conference, February 17, 2023, Salt Lake City, UT, USA.

57. R. Kuttler and **S. Z. Sajal**, " Low-cost Subscription-less Home Security System," presented in the 2022 Annual IEEE International Conference on Electro/Information Technology (eit2022), May 19-21, 2022, Mankato MN, USA.

56. J. Lauder and **S. Z. Sajal**, " Jaxium: A Trusted Social Network with Maximum Privacy," presented in the 2022 Annual IEEE International Conference on Electro/Information Technology (eit2022), May 19-21, 2022, Mankato MN, USA.

55. N. Kalubi and **S. Z. Sajal**, " Cloud Computing: Arduino Cloud IoT Integration with REST API," presented in the 2022 Annual IEEE International Conference on Electro/Information Technology (eit2022), May 19-21, 2022, Mankato MN, USA.

54. Nyles Durfey and **Sayeed Sajal**, “A Comprehensive Survey: Cybersecurity Challenges and Futures of Autonomous Drones,” presented at the 2022 i-ETC conference, May 13-14, 2022, Orem, UT, USA.

53. Clay Keisel and **Sayeed Sajal**, “BabelFish: A Seamless Solution to Communicate with Multi-Lingual Individuals,” presented at the 2022 i-ETC conference, May 13-14, 2022, Orem, UT, USA.

52. Quinton Carlisle, Ethan Roundy, Jefferson Evans, and **Sayeed Sajal**, “Seamless Parking Solution for UVU,” presented at UVU Showcase, April 5, 2022, Orem, UT, USA.

51. Marc Mangun and **Sayeed Sajal**, “ We have a security breach. Now what?”, presented at the UCUR conference, February 25, 2022, St George, UT, USA.

50. Koby Thatcher and **Sayeed Sajal**, “ Encryption—The ultimately a question of economics,” presented at the UCUR conference, February 25, 2022, St George, UT, USA

49. Gavin Holt and **Sayeed Sajal**, “ Insecure design—problems and solutions,” presented at the UCUR conference, February 25, 2022, St. George, UT, USA

48. Jeremiah Nicholls and **Sayeed Sajal**, “Threats and prevention of injection attack.”, presented at the UCUR conference, February 25, 2022, St. George, UT, USA

47. Talmage Shill and **Sayeed Sajal**, “ The security risks due to human—the weakest link.”, presented at the UCUR conference, February 25, 2022, St. George, UT, USA

46. J. Neilan and **S. Z. Sajal**, "Creating Hands-on Assignments to Teach Symmetric Encryption with Increased Student Involvement," presented at the 30th Annual CCSC Rocky Mountain Conference, Oct 15-16, 2021 Westminster, CO, USA.

45. Z. Kadry and **S. Z. Sajal**, "Simplifying User Interfaces for Data Science and Machine Learning Applications," presented at the 2020 SDSU Data Science Symposium, February 10-11, 2020, Brookings SD, USA.

44. C. Idim and **S. Z. Sajal**, "Collaborative Filtering in E-commerce Business," presented at the 2020 SDSU Data Science Symposium, February 10-11, 2020, Brookings SD, USA.

43. Z. Yang, and **S. Z. Sajal**, "Predicting severity and Frequency of Automobile Accidents, and Identification of Accident Hotspots in the U.S.," presented at the 2020 SDSU Data Science Symposium, February 10-11, 2020 Brookings SD, USA.

42. **S. Z. Sajal**, I. Jahan, and K. E. Nygard, " A survey on Cyber Security Threats and Challenges in Modern Society," presented in the 2019 Annual IEEE International Conference on Electro/Information Technology (eit2019), May 20-22, 2019 Brookings SD, USA.

41. I. Jahan, **S. Z. Sajal** and K. E. Nygard, "Prediction Model Using Recurrent Neural Networks," presented in the 2019 Annual IEEE International Conference on Electro/Information Technology (eit2019), May 20-22, 2019 Brookings SD, USA.

40. T. E. Moat, S. Latif, G. Y. Lazarou, and **S. Z. Sajal**, " Large-Scale Planar Arrays with Orthogonal Elements for 5G Mobile Terminals," presented in the 2019 Annual IEEE International Conference on Electro/Information Technology (eit2019), May 20-22, 2019 Brookings SD, USA.

39. **S. Z. Sajal** and B. D. Braaten, "Implementation of Redundancy Techniques using 97% Carbon Content Graphene-based Conductors," presented in the *2019 Annual IEEE International Conference on Electro/Information Technology (eit2019),* May 20-22, 2019 Brookings SD, USA.

38. **S. Z. Sajal** and B. D. Braaten, "On the Reliability of 97% Carbon Content Graphene-based Transmission Lines in Bending Applications and Comparison to Copper and Aluminum Conductors," presented at the 2019 Annual IEEE International Conference on Electro/Information Technology (eit2019), May 20-22, 2019 Brookings SD, USA.

37. **S. Z. Sajal**, I. Jahan, and K. E. Nygard, "Cyber-Physical System Security Treats: Challenges and Solutions," presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019 Fargo, ND, USA.

36. I. Jahan, and **S. Z. Sajal**, and K. E. Nygard, "Mobile Applications Online Review and Rating Research: A Systematic Analysis and Heuristic-Systematic Model," presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019 Fargo, ND, USA.

35. Christopher Abbas and **S. Z. Sajal**, " Impact of Software Tools and Environment to the Development Process," presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019, Fargo, ND, USA.

34. E. High, and **S. Z. Sajal**, " Need and Challenges of Edge Computing in Software Engineering for the Internet of Things (IoT)," presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019, Fargo, ND, USA.

33. H. Nwachukwu and **S. Z. Sajal**, " Software Project Management and its Related Factors, "presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019, Fargo, ND, USA.

32. C. Idim and **S. Z. Sajal**, " System Issues in Software Development-Problems, Effects and Solutions," presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019, Fargo, ND, USA.

31. N. Adhikari and **S. Z. Sajal**, " Test-Driven Development (TDD)—Challenges and Potential Pitfalls," presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019, Fargo, ND, USA.

30. P. Ibeabuchi and **S. Z. Sajal**, " Software Project Management and Underlying Development Factors, "presented at the Midwest Instruction and Computing Symposium (MICS 2019), April 5-6, 2019, Fargo, ND, USA.

29. **S Z Sajal**, S I Latif and E. Spencer, "Circularly Polarized Small-Footprint Hybrid Ring-Patch Stacked Antenna For Pico-Satellites," presented in the 2018 IEEE International Symposium on Antennas and Propagation, Jul. 8 - 13, 2018, Boston, MA USA.

28. K. Q. Henderson, S I Latif, G. Lazarou, S. K. Sharma, A. Tabbal, and **S. Z. Sajal**, "Dual-Stub Loaded Microstrip Line-Fed Multi-Slot Printed Antenna for LTE Band," presented in the 2018 IEEE International Symposium on Antennas and Propagation, Jul. 8 - 13, 2018, Boston, MA USA.

27. **S. Z. Sajal** and S. I. Latif, " Hybrid Perturbation Technique Applied to Stacked Patches for Circular Polarization," presented at the 17th Annual IEEE International Conference on Electro/Information Technology (eit2018), May 3-5, 2018 Rochester, MI, USA.

26. S. Salekin, I. Jahan, S. Agaian, and **S. Z. Sajal**, " Image De-noising through Symmetric, Bell-shaped, and Centered Weighted Median Filters Based Sub-Band Decomposition," presented at the 17th Annual IEEE International Conference on Electro/Information Technology (eit2018), May 3-5, 2018 Rochester MI, USA.

25. I. Jahan, and **S. Z. Sajal**, " Stock Price Prediction using Recurrent Neural Network (RNN) Algorithm on Time-Series Data," presented at the Midwest Instruction and Computing Symposium (MICS 2018), April 6-7, 2018 Duluth MN, USA.

24. I. Jahan, and **S. Z. Sajal**, " Prediction on Oscar Winners Based on Twitter Sentiment Analysis Using R," presented at the 2018 SDSU Data Science Symposium, February 11-12, 2018 Brookings SD, USA.

23. S. Roy, **S. Sajal** and B. D. Braaten, "A Phase Correction Technique based on Spatial Movements of Antennas in Real-Time (S.M.A.R.T.) for Designing Self-Adapting Conformal Array Antennas," *Microwave and Optical Technology Letters*, vol. 59, no. 12 Dec. 2017, pp. 3002-3010.

22. **Sajal, Sayeed Zebaul Haque.** *Conformal Antennas and Arrays with Layers Consisting of Copper and Graphene-based Conductors for Redundancy Properties*. Diss. North Dakota State University, 2017.

21. M. Obaida, E. Nelson, R. Ee, I. Jahan, and **S. Z. Sajal**, "Static Analysis on Interactive Sensitive Data Exposure Detection," presented at the 16th Annual IEEE International Conference on Electro/Information Technology (eit2017), May 14-17, 2017 Lincoln NE, USA.

20. M. Obaida, I. Jahan, and **S. Z. Sajal**, "Analysis on Interactive Data Race Checker: IDRC," presented at the 16th Annual IEEE International Conference on Electro/Information Technology (eit2017), May 14-17, 2017 Lincoln NE, USA.

19. M. B. Qureshi, S. Roy, S. Asif, **S. Z. Sajal**, Chad Ulven and B. D. Braaten, "On using Biocomposite Filaments to Additively Manufacture Substrates for Microstrip Transmission Lines," presented at the 16th Annual IEEE International Conference on Electro/Information Technology (eit2017), May 14-17, 2017 Lincoln NE, USA.

18. S. Roy, M. B. Qureshi, S. Asif, **S. Z. Sajal** and B. D. Braaten, "A Study of Microstrip Transmission Lines on Substrates Created using Additive Manufacturing and Flexible or Semi-rigid Filaments," presented at the 16th Annual IEEE International Conference on Electro/Information Technology (eit2017), May 14-17, 2017 Lincoln NE, USA.

17. **S. Sajal** and B. D. Braaten, “Implementation of Self-Healing Techniques Using 97% Carbon Content Graphene-Based Conductors on Flat and Conformal Antennas,” presented at the IEEE Red River Valley Conference on March 31, 2017, in Fargo, ND.

16. **S. Sajal** and B. D. Braaten, “Implementation of Self-Healing Techniques Using 97% Carbon Content Graphene-Based Conductors (GBC) on Flat and Conformal Antennas,” presented at the 2017 Faculty and Students Research Poster Session, April 27, 2017, in Minot, ND.

15. **S. Sajal** and B. D. Braaten, "A Conformal Antenna on a Passive UHF RFID tag using 97% Carbon Content Graphene-Based Conductors and Paper Substrates," presented in the 2017 IEEE International Symposium on Antennas and Propagation, Jul. 9 - 14, 2017, San Diego, CA USA.

14. R. Shadid, **S. Sajal**, S. Noghanian, and A. Nejdapak, "Efficiency Comparison of Inductive and Radiative Power Transfer for Biomedical Applications," presented in the 2017 IEEE International Symposium on Antennas and Propagation, Jul. 9 - 14, 2017, San Diego, CA USA.

13. **S. Sajal**, B. D. Braaten, T. Tolstedt, S. Asif and M. J. Schroeder, "Design of a Conformal Monopole Antenna on a Paper Substrate using the Properties of Graphene-Based Conductors," Microwave and Optical Technology Letters, vol. 59, no. 6, Jun. 2017, pp. 1279-1283.

12. **S. Sajal**, B. D. Braaten, V. Marinov, Y. Atanasov and O. Swenson, "A Low-Cost Antenna Design on a Paper Substrate for Near-Field Passive UHF RFID Tags," Microwave and Optical Technology Letters, vol. 59, no. 5, May 2017, pp. 1052-1056.

11. **S. Z. Sajal**, B. D. Braaten, T. Tolstedt, and M. J. Schroeder, "Design of a CPW-Fed Graphene-Based Conformal Monopole on a Paper Substrate," 2016 IEEE International Symposium on Antennas and Propagation, Jun. 26 - Jul. 1, 2016, Fajardo, Puerto Rico.

10. A. Iftikhar, J. M. Parrow, S. M. Asif, **S. Z. Sajal**, B. D. Braaten, J. Allen, M. Allen, and B. Wenner, "10," 2016 IEEE International Symposium on Antennas and Propagation, Jun. 26 - Jul. 1, 2016,

Fajardo, Puerto Rico.

9. **S. Z. Sajal**, A. Iftikhar and B. D. Braaten, "Analysis of an Array with Graphene-Based Conductors," *2016 IEEE International Conference on Wireless Information Technology and Systems and Applied Computational Electromagnetics,* Mar. 13-17, 2016, Honolulu Hawaii USA

8. S. Asif, A. Iftikhar, **S. Z. Sajal**, B. D. Braaten and M. S. Khan, "On Using Graphene-Based Conductors as Transmission Lines for Feed Networks in Printed Antenna Arrays," *2015 IEEE International Conference on Electro/Information Technology*, May 21 - 23, 2015, Northern Illinois University, DeKalb IL, USA, pp. 681-683.

7. **S. Z. Sajal**, B. D. Braaten, and V. R. Marinov, "A Microstrip Patch Antenna Manufactured with Flexible Graphene-Based Conducting Material," *2015 IEEE International Symposium on Antennas and Propagation,* Jul. 19 - 25, 2015, Vancouver BC, Canada.

6. **S.Sajal**, Y. Atanasov, B. D. Braaten, V. Marinov, and O. Swenson, "A Low-Cost Flexible Passive UHF RFID Tag for Sensing Moisture Based on Antenna Polarization," *IEEE International Conference on Electro/Information Technology,* Jun. 5 - 7, 2014, Milwaukee, WI, USA, pp. 542-545 **(Awarded IEEE Electro/Information Technology Conference 2014 Best Paper Award).**

5. **Sajal, Sayeed Zebaul Haque.** *Low-cost passive UHF RFID tags on paper substrates*. Diss. North Dakota State University, 2014.

4. A. Naqvi, S. Usman, **S. Sajal**, and B. D. Braaten, "Zero Reflection Boundary using Tensor Transmission Line," *IMAPS NDSU Microelectronics Summit,* Fargo, ND, Oct. 18, 2013.

3. **S. Sajal***,* Y. Atanasov, V. Marinov, O. Swenson, and B. D. Braaten, "Moisture Sensor using the Polarization of the Dipole Antenna," *IMAPS NDSU Microelectronics Summit,* Fargo, ND, Oct. 18, 2013. **(Won 3rd prize in a poster presentation at 2013 *IMAPS NDSU Microelectronics Summit)***

2. Y. Atanasov, **S. Sajal***,* V. Marinov, O. Swenson, and B. D. Braaten, "Disruptive Laser-Enabled Technology for MEMS Fabrication and Assembly: Electromagnetic-Enabled Switch for MEMS-based Metamaterial," *IMAPS NDSU Microelectronics Summit,* Fargo, ND, Oct. 18, 2013. **(Won 1st prize in a poster presentation at 2013 *IMAPS NDSU Microelectronics Summit*)**

1. B. D. Braaten, A. Iftikhar, M. Rafiq, A. Naqvi, S. Nariyal, A. Taylor, **S. Sajal**, M. Iskander and D. E. Anagnostou, "An Initial Investigation on the use of Carbon Microfibers for Conformal Transmission Lines," *2013 IEEE International Conference on Electro/Information Technology*, May 9 - 11, 2013, Rapid City, SD, USA.

Professional Affiliation:

Memberships:

- Association for Computing Machinery (ACM)
- Member of IEEE-HKN Honor Society (IEEE-HKN)
- Senior Member Institute of Electrical and Electronics Engineers (IEEE)
  - Young Professionals (YP)
  - Antennas and Propagation Society (AP-S)
  - Council on Electronic Design Automation (CEDA)
  - Microwave Theory and Techniques Society (MTT-S)
- Applied Computational Electromagnetics Society (ACES)
- Life Member of Institution of Engineers, Bangladesh (IEB)
- Life Member of Cadet College Club, Bangladesh (CCC)

Technical, Academic, and Professional Community Activities:

Technical Program Committee:

- Program Chair, Computing, i-ETC 2024
- Chair, UVU Showcase at Utah Valley University, 2021-Present
- Publicity Chair, CCSC Rocky Mountain 2021- 2022
- Session Chair, i-ETC 2022
- Publicity Chair, ICICT 2021
- Session Chair, 2020 SDSU Data Symposium
- Scientific Committee, 2020 SDSU Data Symposium
- Member of Technical Program Committee (TPC), 3rd International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R, 2020)
- Publicity Co-Chair, 2019 IEEE EIT Conference
- Session Chair, 2018, 2019 IEEE EIT Conference
- Session Chair, 2018 Midwest Instruction and Computing Symposium (MICS)

Academic Reviewer:

- Reviewer, CCSC Rocky Mountain, 2022- present
- Reviewer, i-ETC Conference, 2022- Present
- Judge, Poster Sessions, UVU Showcase, 2021- Present
- Reviewer, IEEE EIT Conference, 2016- present
- Reviewer, 2021 ICICT Conference
- International Journal of Electronics and Communications
- IEEE Transactions on Industrial Electronics
- ACES Transactions on Computational Electromagnetics

Professional Services:

- Judge, Women in Leadership Collegiate Case Competition 2024
- Member, CS MCS Committee, Utah Valley University, 2023- Present
- Advisor, Computer Science Club, 2021- Present
- Judge, Women in Leadership Collegiate Case Competition 2023

- CET Dean Search Committee, 2021-2022
- Computer Science Faculty Search Committee in Spring, 2022
- Computer Science Faculty Search Committee in Fall, 2021
- Computer Science Faculty Search Committee in Spring, 2021
- Member of MSU "Strategic Planning and Budget Council" since Fall 2019.
- Nominated by President Dr. Shirley to serve as the Chair for "MSU Diversity Council" at Minot State University since Fall, 2019
- Committed to serving in the "Cyber Security K20 Planning Committee."
- Committed to serving in the "North Dakota Cyber Security Task Force."
- Computer Science Faculty Search Committee in Spring, 2018
- Invited panelist on a panel discussion: "Contemporary Capitalism" at MSU on April 24, 2018
- Faculty Senator, Minot State University, 2017-2019
- Co-Chair, Evaluation of Teaching Committee at Minot State University, 2017-2018
- Member, MSU Diversity Council at Minot State University, Fall 2016- Fall 2019
- Advisor, Minot State University Student Men's Soccer Club, Since Fall, 2017
- Academic Advisor: Actively advising MSU students since Fall, 2017
- Member of "Title IX advisory committee" at Minot State University since Fall,2016
- Facilitator, 2017 NDSU Science Olympiad, Fargo, ND
- Help to support job shadow with a high school student in South Prairie in Spring,2017
- Member of Evaluation of Teaching Committee at Minot State University, 2016-2017
- Faculty Senate Representative, Student Government, Minot State University, Fall 2016
- Faculty Senator, Minot State University, Fall 2016
- Vice President, Government Relation, North Dakota Student Association, 2016- 2017
- Chair, State Legislative Affairs Committee (SLAC), NDSA, 2016-2017
- Senator, Student Government, North Dakota State University, 2015-2017
- Co-chair, Finance, Graduate Student Council, North Dakota State University, 2015-2016
- Secretary, Bangladeshi Student Organization (BSO), North Dakota State University, 2015-2016
- Judge, 2015 Northern Plains BEST Robotics Regional Championship, Fargo, ND
- Facilitator, 2015 NDSU Science Olympiad, Fargo, ND
- Pit Crew, 2014 Northern Plains BEST Robotics Regional Championship, Fargo, ND
- Facilitator, 2014 NDSU Science Olympiad, Fargo, ND

Presentations / Professional meetings

2025:

- 2025 i-ETC Conference, Orem, UT, May 2025 [https://www.uvu.edu/cet/i-etc/]
- 2025 RSAC Conference, San Francisco, May 2025 [https://www.rsaconference.com/usa]
- 2025 ABET Symposium, San Diego, CA, April 2025 [https://symposium.abet.org/]
- 2025 ACM SIGCSE, Pittsburgh, PY, February 2025

[https://sigcse2025.sigcse.org/]

2024:

- 2024 DEFCON, Las Vegas, NV, August 2024
  [https://defcon.org/html/defcon-32/dc-32-venue.html]
- 2024 Black Hat Conference, Las Vegas, NV, August 2024
  [https://www.blackhat.com/us-24/]
- 2024 I3SC Spring Symposium, Logan, UT, May 2024
  [https://www.usu.edu/cai/engagement/i3sc-consortium]
- 2024 PerCom, Biarritz, France, March 11- 15, 2024
  [https://www.percom.org/]
- 2024 UCUR, Orem, UT, February 15- 16, 2024
  [https://www.uvu.edu/undergrad-research/ucur/program.html#conference]

2023:

- 2023 Cengage Computing Experience, Orlando, FL, October, 2023
  [https://www.cengage.com/events/cengage-computing-experience/series/]
- 2023 DEFCON, Las Vegas, NV, August 2023
  [https://defcon.org/html/defcon-31/dc-31-schedule.html]
- 2023 Black Hat Conference, Las Vegas, NV, August 2023
  [https://www.blackhat.com/us-23/]
- 2023 i-ETC Conference, Provo, UT, May 2023
  [https://www.uvu.edu/cet/i-etc/]
- 2023 Grant Networking Event in DC, May 2023
- 2023 NCWIT Summit, May 2023
  [https://ncwit.org/summit/2023/]
- 2023 I3SC Spring Symposium, Logan, UT, May 2023
  [https://www.usu.edu/cai/engagement/i3sc-consortium]
- 2023 UVU Showcase, Orem, UT, April 2023
  [https://www.uvu.edu/sculpt/showcase/]
- 2023 UCUR, Salt Lake City, UT, February 2023
  [https://our.utah.edu/education-events/ucur/]
- 2023 Data Connectors: Salt Lake City Cybersecurity Conference, Salt Lake, UT, February 2023
  [https://dataconnectors.com/events/2023/february/salt-lake-city/]

2022:

- 2022 DEFCON, Las Vegas, NV, August 2022
  [https://defcon.org/html/defcon-30/dc-30-schedule.html]
- 2022 Black Hat Conference, Las Vegas, NV, August 2022
  [https://www.blackhat.com/us-22/]
- 2022 EIT Conference, Mankato, MN, May 2022
  [https://eit-conference.org/eit2022/]

- 2022 i-ETC Conference, Orem, UT, May 2022
  [https://www.uvu.edu/cet/i-etc/]
- 2022 I3SC Spring Symposium, Logan, UT, May 2022
  [shorturl.at/dwDGS]
- 2022 UVU Showcase, Orem, UT, April 2022
  [https://www.uvu.edu/sculpt/events/showcase.html]
- 2022 Pycon, Salt Lake City, UT, April 2022
  [https://us.pycon.org/2022/]
- 2022 Utah Diplomatic Conference, Orem, UT, March 2022
  [https://www.uvu.edu/global/diplomatic-conference/]
- 2022 ACTE Annual Conference, St. George, UT, February 2022
  [https://web.acteonline.org/ACTE/Events/SpecificEvents/Event_Display_UACTE2022.aspx?EventKey=UACTE2022]
- 2022 UCUR, St. George, UT, February 2022
  [https://academics.utahtech.edu/ucur2022/]
- 2022 Data Connectors: Salt Lake City Cybersecurity Conference, Salt Lake, UT, January 2022
  [https://dataconnectors.com/events/2022/january/salt-lake-city-2022/]

2021:

- 2021 30th Annual CCSC Rocky Mountain (CCSC-RM) Conference, Westminster, CO, USA, October 2021
- 2021 SIGCSE, Online, March 2021

2020:

- 2020 SDSU Data Science Symposium, Brookings SD, USA, February 2020

2019:

- State-wide several "Cyber Security K20 Planning Committee" meetings, Bismark, ND
- Invited talk on "Women's Equality" at Minot Airman Leadership School, Minot, ND, on 2019 Women's Equality Day, Aug 26, 2019
- Invited talk at "Seminar on the Prospect of Technopreneurship, Daffodil International University," Dhaka on July 29, 2019
- Invited talk on "The prospect and opportunity of higher studies in the USA" at Mirzapur Cadet College, Mirzapur, Tangail, on July 11, 2019
- 2019 IEEE International Conference on Electro/Information Technology, Brookings, SD, USA. May 2019
- 2019 Midwest Instruction and Computing Symposium (MICS), Fargo, ND, USA, April 2019
- 2019 NASA Space Grant Affiliates Meeting, Minot, ND, USA, March 2019
- 2019 ND EPSCoR State Conference, Fargo, ND, USA, March 2019

2018:

- State-wide several "Cyber Security K20 Planning Committee" meetings, Bismark, ND

- 2018 International Conference on Machine Learning and Applications, Orlando, FL, Dec 2018
- 2018 IEEE International Symposium on Antennas and Propagation, Boston, MA, USA, July 2018
- 2018 Governor's Summit on Innovative Education, Fargo, ND, June 2018
- 2018 IEEE International Conference on Electro/Information Technology, Rochester, MI, USA. May 2018
- 2018 Faculty and Students Research Poster Session, Minot, ND, USA, April 2018
- 2018 Midwest Instruction and Computing Symposium (MICS), Duluth, MN, USA, April 2018
- 2018 SDSU Data Science Symposium, Brookings SD, USA, February 2018

2017:

- State-wide several "Cyber Security K20 Planning Committee" meetings, Bismark, ND
- 2017 IEEE International Symposium on Antennas and Propagation, San Diego, CA, USA, July 2017
- 2017 IEEE International Conference on Electro/Information Technology, Lincoln, NE, USA, May 2017
- 2018 Faculty and Students Research Poster Session, Minot, ND, USA, April 2018
- 2017 Red River Valley Conference, Fargo, ND, USA, March 2017.
- 2017 TEDxNDSU Speaker, April 24th in Fargo, ND. The name of the talk is "The Beauty of Wireless Communication" https://www.ted.com/tedx/events/22066.

2016:

- 2016 Fall Math Talk: "Low-cost Battery-less Moisture Sensors," presented at Department of Mathematics and Computer Sciences, Minot, ND, USA
- 2016 NDSU Innovation Challenge (Social Track), Fargo, ND, USA
- 2016 NDSU Innovation Challenge (Service Track), Fargo, ND, USA
- 2016 IEEE International Symposium on Antennas and Propagation, Fajardo, Puerto Rico, USA, June 2016
- 2016 EEE International Conference on Wireless Information Technology and Systems and Applied Computational Electromagnetics, Honolulu, Hawaii, USA, March 2016
- 2016 Annual meeting, Clinton Global Initiative University (CGI-U) on Social Impact Entrepreneurship, Berkeley, CA, USA, April 2016

2015:

- 2015 IEEE International Symposium on Antennas and Propagation, Vancouver, BC, Canada, July 2015
- 2015 3-Minutes Thesis Competition, Fargo, ND, USA
- 2015 North Dakota Cyber Security Conference, Fargo, ND, USA, March 2015

2014:

- 2014 IEEE International Conference on Electro/Information Technology, Milwaukee, WI, USA, June 2014

2013:

- 2013 IMAPS NDSU Microelectronics Summit, Fargo, ND, USA Oct 2013

- 2013 IEEE International Conference on Electro/Information Technology, Rapid City, SD, USA, May 2013
- I have also been a presenter at seminars in the Electrical and Computer Engineering Department at NDSU.

Research Profile:

Research Interest: Cyber-Physical System, Cyber Security, Sensors, RFID, Microwave, Machine Learning, and Metamaterials.

Skills:

- Cyber Security Tools: Splunk, Wireshark, Immunity
- Programming Tool: C/C++, Java, Matlab, HTML, CSS, PHP, Assembly, Python
- CAD Simulation Tool: ADS, HFSS
- Operating System: Linux, Mac OS, and Windows
- Automation Tool: Labview
- 3D Printing: Solidworks
- Device and material characterization: Vector Network Analyzer, Impedance Analyzer, Spectrum Analyzer, Antenna Positioning System, Anechoic chamber.
- Circuit Analysis: HSPICE, Altium, Cadence
- Management: MS Office, MS Visio, MS Project
- Leadership: Innovative, Self-motivated, Positive mindset, Confident, NLP

Training:

- 802.11 Unplugged: Modern Wi-Fi Hacking, Black Hat 2024, August 2024
- NCWIT Learning Circles Series Workshop, Sep 2023- May 2024
- Assessing and Exploiting Control Systems and IIoT (AaECS), Black Hat 2023, August 2023
- Full Scope Social Engineering and Physical Security, Black Hat 2022, August 2022
- Blockchain for Faculty and Business Professionals, University of Colorado, December 2020
- Oracle Solaris (OS 10) Advanced System Administration, Oracle, October 2011
- Oracle Solaris (OS 10) Intermediate System Administration, Oracle, September 2011
- Oracle Solaris (OS 10) Unix Essentials, Oracle, September 2011
- BSC6900 Planning & Dimensioning, Huawei Technologies, January 2011
- SGSN & GGSN Planning and Dimensioning, Huawei Technologies, January 2011
- Unison Administration & Optimization Fundamentals (Bytemobile), Citrix, June 2010
- GGSN R5 Delta 2009A, Ericsson, March 2010
- GSM/WCDMA SGSN R8 Configuration (Dual Access), Ericsson, October 2009
- N2000 System User, Huawei Technologies, October 2008

- NE Series High-end Routers Maintenance, Huawei Technologies, October 2008
- GPRS/EDGE Performance Management [access part], Huawei Technologies, August 2008
- GSM/UMTS Softswitch Advanced Training, Huawei Technologies, June 2008
- GSM/UMTS Softswitch Fundamental, Huawei Technologies, June 2008
- GSM/UMTS Softswitch NW Optimization (Performance), Huawei Technologies, June 2008
- Access Network Operation & Maintenance, Grameenphone Ltd., April 2008
- Cisco Certified Network Associate (CCNA), BUET 2006

Professional Development:

- UVU Certified "Flex Course Design" Faculty
- UVU Certified "Anti-racist Pedagogy" Faculty
- UVU Certified "Undergraduate Research" Faculty
- UVU Certified "Service Learning" Faculty
- UVU EdTech Summit, February 2022
- UVU Hire: Search Committee, February 2022
- UVU Thrive, February 2022
- UVU Teaching Technology Tune-up, Fall 2021
- UVU Livestream Teaching Academy, Fall 2020
- UVU Mentoring Academy, November 2020
- UVU Online Teaching Academy, Fall 2020
- UVU UTLG Fall 2020 Conference, September 2020

Volunteer Involvements:

- Help to organize Northern Utah Aspirations in Computing Award Ceremony in April 2025. https://margretp.github.io/NCWIT_AiC/
- Actively led and successfully organized "International Mother Language Day 2025" at Utah Valley University in February 2025.
  - Watch the whole program: https://www.youtube.com/live/F30WGRuRPZc
  - ProgramMemories: https://uvumarketing.photoshelter.com/galleries/C0000Gfqnx5C.BHQ/G0000gZriJoOCzb4/International-Mother-Language-Day-2-19-25
    PASSWORD: MotherLang890
- Help to organize Northern Utah Aspirations in Computing Award Ceremony on April 21, 2024.
- Represented the CS department at the Northern Utah Aspirations in Computing Award Ceremony to recruit girls and increase gender equity in the CS department on April 21, 2024. https://www.aspirations.org/affiliate/utah-northern-utah
- Actively led and successfully organized "International Mother Language Day 2024" at Utah Valley University in February 2024.
  - Watch the whole program: https://www.youtube.com/live/Oc5olRa8bkY
  - ProgramMemories: https://uvumarketing.photoshelter.com/galleries/C0000FzHpNSfM4uk/G0000.diXWe7QgCU/International-Mother-Language-Day-2024-2-28-24
    PASSWORD: Uvu1941!

- Help to organize Northern Utah Aspirations in Computing Award Ceremony on April 15, 2023.
- Represented the CS department at Northern Utah Aspirations in Computing Award Ceremony to recruit girls and increase gender equity in the CS department, on April 15, 2023. https://www.aspirations.org/affiliate/utah-northern-utah

- Actively led and successfully organized "International Mother Language Day 2023" at Utah Valley University in February 2023.
    - Program Highlights: https://www.youtube.com/watch?v=90UacRmSfEA
    - Watch the whole program: https://www.youtube.com.mcas.ms/watch?v=muvJqif9zyk
    - Program Memories: https://uvumarketing.photoshelter.com/galleries/C0000wV7zQID6pg4/G0000DRUjrM1iiLU/International-Mother-Language-Day-2-21-23 PASSWORD: MLD221
- Represented CS department at Northern Utah Aspirations in Computing Award Ceremony to recruit girls and increase gender equity in CS department, April 2022. https://www.aspirations.org/affiliate/utah-northern-utah
- Actively led and successfully organized "International Mother Language Day 2022" at Utah Valley University in February 2022.
    - Photographs: https://drive.google.com/drive/folders/1PaSDYd4pZe4OWXwfWajVOvx4cnHynodQ?usp=sharing
    - Full agenda of the Program: https://lnkd.in/gxBGDHTk
    - Watch the whole program: https://lnkd.in/gRsefD4w
- Helped the CS department to promote in Utah Capitol Hills, February 2022
- Represented the CS department at Girl's Engineering and Technology Day to recruit girls and increase gender equity in the CS department in November 2021.
- Actively led and successfully organized "International Mother Language Day 2021" at Utah Valley University in February 2021.
    - SourceLink: https://www.uvu.edu/news/2021/02/2021_02_26_international_mother_language_day.html?fbclid=IwAR3vnzKmLRYID7GTwYf7oBd7DjnuJELlVRUBXzxdaq4lJuNQQrN9Dgv_UT4

- Actively led and collaborated with the local community to bring the "1 Million Cups" event to Minot Community.
- Actively led and successfully organized "International Mother Language Day 2020" at Minot State University.
    - Source Link: https://www.kfyrtv.com/content/news/Minot-State-University-celebrates-Mother-Language-Day-568096071.html
- Actively led and successfully organized "International Mother Language Day 2019" at Minot State University.
    - Source Link: https://www.kxnet.com/news/msu-professor-stresses-importance-of-international-mother-language-day/
    -
- Actively led and successfully organized "International Mother Language Day 2018" at Minot State University.
    - Source Link: https://www.kfyrtv.com/content/news/Minot-State-Students-celebrate-International-Mother-Language-Day-

474768873.html?fbclid=IwAR3o4TCt93qah3FSAOEB44mxgXxnZrGcscX807ovFY_W-ji59FviVCfgML4

- Actively participated in Hostfest event to encourage students to volunteer in September 2017
- I am actively involved in helping new students on moving day in August 2017 at Minot State University.
- Actively led and successfully organized "International Mother Language Day 2017" at Minot State University for the first time.
    - Source Link: https://www.facebook.com/watch/?v=10154057888517396
- Led and presented the "Bangladeshi Culture and Food" in cultural diversity event at Minot State University (Fall'2016)
- Actively participated in helping new students on moving day in August 2016 at Minot State University.
- Actively led and organized "International Mother Language Day 2016" in the Fargo-Moorhead area.
    - Source Link: https://www.youtube.com/watch?v=PSEgRicwYbE&t=42s&ab_channel=SSajal
- Successfully developed a new idea in Start-up weekend, Fargo, ND, March 2016
- Actively participated in "Masters of Success II," an advanced leadership program in Spring, 2016
- Led the NDSU leadership program "Harambee" in Fall,2015
- Served in Planning committee in TEDx Fargo, July 2015
- Successfully developed a new idea in Start-up weekend, Fargo, ND, March 2015
- Actively participated in the "Masters of Success I" leadership program in Spring, 2015
- Helped kids at TNT Kid's Fitness & Gymnastics, Fargo, ND, in 2013

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