

# CURRICULUM VITAE

## DR. AMITABH MISHRA

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### ACADEMIC BACKGROUND

*PhD in Computing Science & Engineering*, University of Cincinnati, Cincinnati, OH, USA, July 2015

*Master of Technology in Instrumentation*, Devi Ahilya University, Indore, India, June 2001

*Post Graduate Diploma in Personnel Management*, National Institute of Personnel Management, Kolkata, India, August 2004

*Post Graduate Diploma in Biomedical Informatics*, Bioinformatics Institute of India, NOIDA, India, June 2004

*Bachelor of Engineering in Electronics*, Ravi Shankar University, Raipur, India. July 1990

### ACADEMIC EXPERIENCE

**Assistant Professor (Tenure earning)**, Department of Computer Science, University of West Florida, Pensacola, FL, USA (August 2017 – present)

**Assistant Professor (Non tenure earning)**, Department of Computer Science, University of West Florida, Pensacola, FL, USA (Aug 2015 – July 2017)

**Lecturer**, School of Computing Sciences and Informatics, Northern Kentucky University, Highland Heights, KY, USA, (Aug 2012 – May 2013)

**Graduate Teaching Assistant**, School of Computing Sciences and Informatics, University of Cincinnati, Cincinnati, OH, USA, (August 2008 – June 2012, Jan 2014 – May 2014)

**Associate Professor**, Computer Science and Engineering, Bhilai Institute of Technology, Durg (C.G.), INDIA, (December 1997 – July 2008) and (October 1990 – Jan 1992)

### COURSES TAUGHT

*University of West Florida, Pensacola, FL, USA*  
**Undergraduate**

Systems and Networks – II, Theory and Fundamentals of Operating Systems, Object Oriented Programming, Data Structures and Algorithms – I, Algorithms and Program Design, Introduction to Computer Organization, Programming in Java, Introduction to Network Security

*Northern Kentucky University, Highland Heights, KY, USA*

**Undergraduate**

Object-Oriented Programming in Java, Data Structures and Algorithms, Information Technology Fundamentals Lab

*University of Cincinnati, Cincinnati, OH, USA*

**Undergraduate**

Network and System Programming, Computer Fundamentals: Data Structures

*Bhilai Institute of Technology, Durg, India*

**Graduate**

Design of Industrial Transducers and Sensors, Process Control and Industrial Automation, Analytical Instrumentation, Biomedical Instrumentation, Business Management, Microprocessors: Architecture, Programming and Interfacing

**Undergraduate**

Electronic Instrumentation, Mobile Communication and Computing, Digital Signal Processing, Principles of Communication Systems, Microprocessors and Interfacing, Digital Electronics, Advanced Microprocessors, Industrial Transducers and Sensors, Computer Fundamentals, Radio Engineering, Network Analysis, Electronic Engg. Materials

**RESEARCH INTERESTS**

Internet of Things Networks, Network Security, Wireless and Sensor Networks Applications, Heterogeneous Networks, Wireless Control, Green Technologies,

**PUBLICATIONS**

*Books*

1. **A. Mishra**, and D. P. Agrawal. *Enhancement and Appraisal of Internet of Things Healthcare Networks*. Saarbrücken, Germany: Lap Lambert Academic Publishing, May 2017. Print

*Journal Articles (Published/Accepted)*

1. **A. Mishra**, A. Cohen, T. Reichherzer, and N. Wilde, " Detection of Data Anomalies at the Edge of Pervasive IoT Systems", Computing (2021), Springer, <https://doi.org/10.1007/s00607-021-00927-9>
2. **A. Mishra**, T. Reichherzer, E. Kalaimannan, N. Wilde, and R. Ramirez, "Trade-offs involved in the choice of cloud service configurations when building secure, scalable, and efficient Internet-of-Things networks", International Journal of Distributed Sensor Networks, Vol. 16, issue 2, Feb. 2020, <https://doi.org/10.1177/1550147720908199>
3. **A. Mishra** and D.P. Agrawal, "Evaluation of Suitability of Current Industrial Standards in Designing Control Applications for Internet of Things Healthcare Sensor Networks", Journal of Sensor and Actuator Networks 2019, Volume 8, Issue 4, December 2019, doi:10.3390/jsan8040054
4. **A. Mishra**, S. Bagui and J. Compo, "Design and Testing of a Real-Time Audio-Quality Feedback System for Weather Broadcasts and a Framework for a Weather Broadcast Transmission Technology Switch," in IEEE Access, vol. 7, pp. 158782-158797, 2019, doi: 10.1109/ACCESS.2019.2950306.
5. S. Bagui, **A. Mishra**, J. Compo, D. Nandi, and S. Bagui, "Quality Analysis of Streaming Audio over Mobile Networks", 'Transactions on Networks and Communications', vol. 6, no. 6, 2018 DOI: <https://doi.org/10.14738/tnc.66.5526>
6. **A. Mishra** and D. P. Agrawal, "Energy Conservation and Lifetime Optimization of Wireless Body Sensor Networks for 24x7 Physiological parameters' Monitoring," Journal of Communications, vol. 10, no. 9, pp. 685-695, 2015. Doi: 10.12720/jcm.10.9.685-695.

### ***Refereed Proceeding Publications (Published/Accepted)***

1. S. Hopkins, C. Henry, S. Bagui, **A. Mishra**, E. Kalaimannan, and C.S. John, "Applying a Verified Trusted Computing Base to Cyber Protect a Vulnerable Traffic Control Cyber-Physical System", IEEE SoutheastCon 2020, Raleigh, NC, March 28-29 2020, online, pp. 1-8, DOI: 10.1109/SoutheastCon44009.2020.9249758
2. S. Hopkins, S. Bagui, E. Kalaimannan, **A. Mishra**, B. Mishra and D. Kelly, "Test Bed Development for a Security Engineered SCADA Laboratory," 2019 SoutheastCon, Huntsville, AL, USA, 2019, pp. 1-5, doi: 10.1109/SoutheastCon42311.2019.9020480.
3. T. Reichherzer, **A. Mishra**, E. Kalaimannan, N. Wilde, "A Case Study on the Trade-Offs between Security, Scalability, and Efficiency in Smart Home Sensor Networks", 2016 International Conference on Computational Science and Computational Intelligence (CSCI), Las Vegas, NV, 2016, pp. 222-225, doi: 10.1109/CSCI.2016.0049.
4. **A. Mishra** and D. P. Agrawal, "Continuous Health Condition Monitoring by 24x7 Sensing and Transmission of Physiological data over 5-G Cellular Channels", International Conference on Computing, Networking and Communications (ICNC 2015), Feb 16-19, 2015, Anaheim, California, USA. DOI Bookmark:10.1109/ICCNC.2015.7069410
5. A. Jamthe, **A. Mishra**, and D. P. Agrawal, "Scheduling schemes for Interference Suppression in Healthcare Sensor Networks", ICC-2014, Sydney, Australia, 10-14 June 2014. DOI: 10.1109/ICC.2014.6883350
6. **A. Mishra**, S. Chakraborty, H. Li, and D. P. Agrawal, "Error Minimization and Energy Conservation by predicting data in Wireless Body Sensor Networks using Artificial Neural Network and Analysis of Error", CCNC-2014, Las Vegas, NV, USA, Jan 10-13, 2014. DOI: 10.1109/CCNC.2014.7056324
7. N. Weragama, J. H. Jun, **A. Mishra** and D. P. Agrawal, "Simulation of Mobility Aware Dynamic Virtual Cells Utilizing Multiple Multicast Trees", IEEE ComSoc TCSIM Quarterly Newsletter, vol. 15, pp. 2-4, Dec 2012.
8. D. Agrawal and **A. Mishra**, "Designing Wireless Sensor Networks: from Theory to Applications," WCSN 2011, Seventh IEEE Conference on Wireless Communication and Sensor Networks, Dec 5-9, 2011, Panna, India.
9. M. Helmuth, R. Danard, J. H. Jun, T. Oliveira, **A. Mishra**, and D. P. Agrawal, "Water Birds: Compositional Collaboration with Clarinets, Wireless Sensors, and RTcmix," SEAMUS 2011, 26th Annual Conference of the Society for Electro-Acoustic Music in the United States, January 20–22, 2011, Miami, Florida.
10. M. Helmuth, J. H. Jun, T. Oliveira, J. B. Merkwitz, **A. Mishra**, Ahmad Mostafa, Dharma Agrawal, "Wireless Sensor Networks and Computer Music, Dance and Installation Implementations," International Computer Music Conference 2010, New York, USA, June 1-5, 2010. Corpus ID: 39374741

### ***Workshops and Tutorials***

1. S. Chakraborty and **A. Mishra**, "Energy-efficient design methodologies for Wireless Body Area Sensor Networks in Healthcare Applications", Tutorial, 13th IEEE International Conference on Wearable and Implantable Body Sensor Networks (BSN 2016), San Francisco, CA, USA, June 14-17, 2016.

### **Technical Committees Served on**

- *SIGCSE 2015 (The 46th ACM Technical Symposium on Computer Science Education)*
- *2015 International Conference on Advances in Computer Engineering & Applications (ICACEA-2015), Ghaziabad, India*
- *APCC 2016 – The 22nd Asia-Pacific Conference on Communications*
- *IEEE Global Communications Conference (Globecom): Ad Hoc and Sensor Networks, 2016*
- *SIGCSE 2016 (The 47th ACM Technical Symposium on Computer Science Education)*
- *SIGCSE 2017 (48th ACM Technical Symposium on Computer Science Education)*

- *IEEE Global Communications Conference (Globecom): Ad Hoc and Sensor Networks, 2017*
- *International Conference on Communication, Security and Optimization of Decision Support Systems (IC-CSOD), February 23rd & 24th 2018, Mumbai, India*
- *ICCEREC 2018 Conference*
- *SIGCSE 2018 Conference*
- *IEEE Globecom 2018 Ad Hoc and Sensor Networks*
- *IEEE ICC 2018 - IEEE International Conference on Communications*
- *25<sup>th</sup> IEEE International Conference on High Performance Computing, Data, and Analytics (HiPC 2018).*
- *SIGCSE 2019 Conference*
- *IEEE CCWC 2019 Conference*

## **REVIEWED**

### ***Journal Articles for***

- IEEE Internet of Things Journal
- Applied Science Journal
- IJAHUC Inderscience Journal
- Sensors Journal
- Data Journal
- Future Internet Journal
- Journal of Sensors and Actuator Networks
- Multimedia Tools and Applications Journal
- Applied Sciences Journal
- IET Communications Journal
- Wireless Communications and Mobile Computing Journal
- Journal of Communications - JCM

### ***Conference Papers for***

- Wireless Telecommunications Symposium 2009 (WTS 2009)
- Ad Hoc Sensor and Mesh Networking Symposium 2009 (Globecom'09 AHSN)
- The 20th IEEE International Symposium On Personal, Indoor and Mobile Radio Communications (PIMRC'09)
- IEEE Wireless Communications and Networking Conference (IEEE WCNC 2010 - MAC)
- IEEE Globecom 2010 - Adhoc and Sensor Networking Symposium (Globecom10 - AHSN)
- 2010 Sixth International Conference on Information Assurance and Security (IAS 2010)
- 29th IEEE International Performance Computing and Communications Conference (IPCCC'10)
- IEEE GLOBECOM 2011 - Wireless Networking Symposium (GC'11 - WN)
- 2013 Proceedings IEEE INFOCOM (INFOCOM'2013)
- IEEE Globecom 2013
- IEEE ICC 2014 - Ad-hoc and Sensor Networking Symposium (ICC'14 AHSN)
- IEEE Globecom 2014
- IEEE International Conference on Communications, 2014
- IEEE Mobicom 2014
- IEEE Globecom 2015
- 2015 IEEE Global Humanitarian Technology Conference (GHTC 2015)
- 2016 22nd Asia-Pacific Conference on Communications (APCC 2016)
- Springer International Conference on Computer, Communication and Computational Sciences 2016,
- 2017 IEEE Global Communications Conference: Ad Hoc and Sensor Networks (Globecom2017 AHSN)
- IEEE ICC 2018 Wireless Networking (ICC'18 WN)
- 2018 IEEE Global Communications Conference: Ad Hoc and Sensor Networks (Globecom2018 AHSN)
- NCUR 2018

- 2019 IEEE 9th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2019)
- 2019 IEEE International Conference on Signals and Systems (ICSigSys2019)
- NCUR 2019

#### ***Book Proposals for***

- Taylor and Francis Publications

#### ***Curriculum for***

- School of Instrumentation, Devi Ahilya University, Indore, India – New IoT course curriculum

### **HONORS & AWARDS**

#### **GRANTS RECEIVED**

1. PI, Grant Name – UWF - 2016 Grow Institute, Competitive, Internal, 3-month grant, Amount - \$10000, successful - received, May 2016
2. PI, Grant Name – High Impact Practices for Academic Year 2020-2021, Competitive, Internal, One Year grant, Amount - \$3000, successful - received, December 2020

#### **GRANTS SUBMITTED (Not funded)**

1. PI, NSF - CRII: Secure and Trustworthy Computing (SaTC) program, entitled ‘IoT Device Security’, Competitive, External, Peer-Reviewed, Amount - \$94785, submitted August 2016, Duration – 2 years,
2. Co- PI, Security and Software Engineering Research Center (S2ERC) Program, entitled ‘Security in IoT Environments’, Competitive, External, Peer-Reviewed, Amount - US\$ 21587, submitted October 2016, Duration – 1 year
3. Co- PI, NSF: RET Site – Computer Science Program, titled ‘Research Experiences for Teachers Focused on Security of Internet of Things (IoT) and Data Analysis’, Competitive, External, Peer-Reviewed, Value - US\$ 599190, submitted October 2017, Duration – 3 years

### **PROFESSIONAL MEMBERSHIPS AND SERVICE**

- Courtesy appointment as a Visiting Research Scientist at the Florida Institute for Human and Machine Cognition, Inc. (IHMC)
- Member, IEEE
- Life Member, Indian Society for Technical Education
- Member, Institution of Engineers (India)
- Life Member, Biomedical Society of India
- Life Member, Instrument Society of India
- Member of Panel of Jury, CII Chhattisgarh HR Excellence Awards - 2005
- Member, Board of Studies, Electronics and Telecommunication Engg. Stream, Faculty of Engineering and Technology, CSV Technical University, Bhilai, CG, India, 2006-2008
- Member, Board of Studies, Electronics Stream of studies, Govt. V.Y.T. P.G. Autonomous College, Durg, CG under Pt. RS Shukla University, Raipur, CG, India, 2005-2008

### **PRESENTATIONS**

#### **International**

1. S. Hopkins, C. Henry, S. Bagui, **A. Mishra**, E. Kalaimannan, and C.S. John, "Applying a Verified Trusted Computing Base to Cyber Protect a Vulnerable Traffic Control Cyber-Physical System", IEEE SoutheastCon 2020, Raleigh, NC, March 28-29, 2020

2. Z. Mueller\*, S. Schuster\*, **A. Mishra**, P. Schmutz, "Affordably Assessing and Comparing Trends in Particulate Matter Concentrations Around a University Campus", American Geophysical Union Fall 2019 (International Conference), San Francisco, CA, 9 – 13 December 2019.
3. S. Hopkins, S. Bagui, E. Kalaimannan, **A. Mishra**, B. Mishra and D. Kelly, "Test Bed Development for a Security Engineered SCADA Laboratory," 2019 SoutheastCon, Huntsville, AL, USA, April 2019
4. T. Reichherzer, **A. Mishra**, E. Kalaimannan, N. Wilde, "A Case Study on the Trade-Offs between Security, Scalability, and Efficiency in Smart Home Sensor Networks", 2016 International Conference on Computational Science and Computational Intelligence (CSCI), Las Vegas, NV, 2016.
5. S. Chakraborty and **A. Mishra**, "Energy-efficient design methodologies for Wireless Body Area Sensor Networks in Healthcare Applications", Tutorial, 13th IEEE International Conference on Wearable and Implantable Body Sensor Networks (BSN 2016), San Francisco, CA, USA, June 14-17, 2016.
6. **A. Mishra** and D. P. Agrawal, "Continuous Health Condition Monitoring by 24x7 Sensing and Transmission of Physiological data over 5-G Cellular Channels", International Conference on Computing, Networking and Communications (ICNC 2015), Feb 16-19, 2015, Anaheim, California, USA.
7. A. Jamthe, **A. Mishra**, and D. P. Agrawal, "Scheduling schemes for Interference Suppression in Healthcare Sensor Networks", ICC-2014, Sydney, Australia, 10-14 June 2014.
8. **A. Mishra**, S. Chakraborty, H. Li, and D. P. Agrawal, "Error Minimization and Energy Conservation by predicting data in Wireless Body Sensor Networks using Artificial Neural Network and Analysis of Error", CCNC-2014, Las Vegas, NV, USA, Jan 10-13, 2014.
9. D. Agrawal and **A. Mishra**, "Designing Wireless Sensor Networks: from Theory to Applications," WCSN 2011, Seventh IEEE Conference on Wireless Communication and Sensor Networks, Dec 5-9, 2011, Panna, India.
10. M. Helmuth, R. Danard, J. H. Jun, T. Oliveira, **A. Mishra**, and D. P. Agrawal, "Water Birds: Compositional Collaboration with Clarinets, Wireless Sensors, and RTcmix," SEAMUS 2011, 26th Annual Conference of the Society for Electro-Acoustic Music in the United States, January 20–22, 2011, Miami, Florida.
11. M. Helmuth, J. H. Jun, T. Oliveira, J. B. Merkwitz, **A. Mishra**, Ahmad Mostafa, Dharma Agrawal, "Wireless Sensor Networks and Computer Music, Dance and Installation Implementations," International Computer Music Conference 2010, New York, USA, June 1-5, 2010.  
(\* - student author)

### National

1. M. Nichols\*, **A. Mishra**, "Encryption Techniques for Secure Data Acquisition and Transfer for the Internet of Things", National Conference on Undergraduate Research 2019 (NCUR 2019), April 10 – 13, 2019, Kennesaw, GA
2. M. Nichols\*, **A. Mishra**, "Secure Data Acquisition and Transfer for the Internet of Things", 2018 National Conference on Undergraduate Research, Apr 4 – 7, 2018, Edmond, OK
3. **A. Mishra** and S. R. K. Rao, "Mathematical Modelling for Auto-running of Discontinuous Heat Exchanger System used for heating of process fluids," special reference to Cowper Stoves, Proceedings of INCON–2004-International Conference on Control and Instrumentation, College of Engineering, Pune, December 2004.
4. **A. Mishra** and S. R. K. Rao, "Control of Adiabatic Flame Temperature in the Raceway Zone in Iron Making using Steam Injection into hot air input," Proceedings of the CISCON — 2004, National Conference on Control and Instrumentation, Manipal Institute of Technology, Manipal, November 2004.
5. M.K. Kowar and **A. Mishra**, "Development of Algorithm for the Analysis of Vibration signal of Rotating Machines," Proceedings of the National Level Conference on Advanced Control and Instrumentation, St. Joseph's College of Engineering, Chennai, January 2004, pp. 110 - 114.
6. **A. Mishra**, "Wireless Sensor Networks - Design Considerations, Architecture and Hardware", *National workshop on "Sensor Instrumentation for Environmental Pollution Monitoring"*, Chhattisgarh Swami Vivekanand Technical University - Centre for Environmental Science and Engineering, Bhilai Institute of Technology, Durg, India, 5<sup>th</sup> - 17<sup>th</sup> June 2006
7. **A. Mishra**, "Wireless Sensor Network Applications", *National workshop on "Sensor Instrumentation for Environmental Pollution Monitoring"*, Chhattisgarh Swami Vivekanand Technical University - Centre for Environmental Science and Engineering, Bhilai Institute of Technology, Durg, India", 5<sup>th</sup> -17<sup>th</sup> June 2006
8. **A. Mishra**, "E-learning" in the *National Seminar and Symposium* on 'Education through Net - A new concept', Institution of Engineers (India), Bhilai Local Chapter, Bhilai, India, 22<sup>nd</sup> August 2003
9. **A. Mishra**, "Telecommunication in Medical Health Care" *National Seminar and Symposium on 'World Telecommunication Day – 2003'*, Institution of Engineers (India), Bhilai, India, 17<sup>th</sup> May 2003
10. **A. Mishra**, "VoIP and Internet Telephony" in the *National Seminar and Symposium on 'World Telecommunication Day – 2002'*, Institution of Engineers (India), Bhilai, India, 17<sup>th</sup> May 2002

11. **A. Mishra**, “The New Internet Technology - in the face of changing world scenario”, *National Seminar and Symposium on ‘World Telecommunication Day – 2001’*, Institution of Engineers (India), Bhilai, India, 17th May 2001

### **Regional**

1. **A. Mishra**, "Research Contributions in IoT Security", IBM Austin Research Lab and Hitachi Security Research - Collaboration Opportunities, Pensacola, FL, Nov 8-10, 2016
2. **A. Mishra**, "Open Research problems in IoT and Cybersecurity", Florida Center for Cybersecurity (FC2) SUS Advisory Council Meeting, Pensacola, FL, May 12, 2016
3. **A. Mishra**, “The concept of Comprehensive Environmental Monitoring and Control System (CEMACS) and typical CEMACS design”, *Workshop on – ‘Trends of Instrumentation and Control towards environmental challenges’* (sponsored by Chhattisgarh State Council for Science and Technology), Durg, India, 5<sup>th</sup> - 6<sup>th</sup> October 2007
4. **A. Mishra**, “The concept of Comprehensive Environmental Monitoring and Control System (CEMACS) and typical CEMACS design”, *Workshop on – ‘Trends of Instrumentation and Control towards environmental challenges’* (sponsored by Chhattisgarh State Council for Science and Technology), Durg, India, 5<sup>th</sup> - 6<sup>th</sup> October 2007

### **Local**

1. M. Nichols\*, **A. Mishra**, “Encryption Techniques for Secure Data Acquisition and Transfer for the Internet of Things”, UWF Student Scholars Symposium & Faculty Research Showcase, April 18, 2019, UWF Pensacola, FL, (Symposium presentation)
2. Bagui, S., Hopkins, S., **Mishra, A.**, Kalaimannan, E., Mishra, B., Kelley, D., Chamblee, J. (2019). Secure SCADA, Student Scholars Symposium and Faculty Research Showcase, UWF April 18 (poster).
3. S. Schuster\*, Z. Mueller\*, **A. Mishra**, P. Schmutz, “An Analysis of Indoor Air Quality and Particulate Matter Concentrations”, 5<sup>th</sup> Annual Summer Research Symposium 2019, August 2019, UWF Pensacola, FL (Poster session)
4. S. Schuster\*, "Utilizing an Open Source Microcontroller System to collect Environmental Pollution Data", UWF Student Scholars Symposium & Faculty Research Showcase, April 18, 2019, UWF Pensacola, FL (Poster session - acknowledgement)
5. M. Nichols\*, **A. Mishra**, “Secure Data Acquisition and Transfer for the Internet of Things”, 4th Annual Summer Research Symposium 2018, August 10, 2018, UWF Pensacola, FL (Poster session)
6. **A. Mishra**, “Cybersecurity Awareness – Risks, Protection of Personal Security and Data Privacy” Perdido Key Chamber of Commerce Kiwanis Club, Perdido Bay, Oct 24, 2017.  
(\* - student author)

### **Chaired Sessions:**

1. Session entitled ‘Symposium on Internet of Things and Internet of Everything’ at The International Conference on Computational Science and Computational Intelligence (CSCI 2016), Las Vegas, NV, USA, December 2016.

### **SERVICE**

#### **University of West Florida, Pensacola, FL**

#### ***Service to the Department***

- CCRs developed
  - Introduction to Networking, 2016
  - Network Security, 2016
- Program Reviews
  - Participated in IT Program Review, 2016
  - Participated in ABET accreditation site visit -
- Computer Science Tutoring – Faculty in-charge, *August 2015- August 2018*
- CodeFest yearly event – Organization Committee Member and Volunteer
  - CodeFest 2016, 1-3 April, 2016
  - CodeFest 2017, 7-9 April 2017
  - CodeFest 2018, 6-8 April, 2018

- CodeFest 2019, 5-7 April, 2019
- Association for Computing Machinery (ACM) International Collegiate Programming Contest (ICPC), Southeast USA Regional Site – Member/Regional Director
  - ACM ICPC 2015 – Member, Organizing Committee
  - ACM ICPC 2016 – Regional Director
  - ACM ICPC 2017 – Regional Director
  - ACM ICPC 2018 – Regional Director
  - ACM ICPC 2019 – Regional Director
- Open House – Computer Science Department Desk – Volunteer
  - UWF Open House CS Information Desk - Fall 2015
  - UWF Open House CS Information Desk - Spring 2016
  - UWF Open House CS Information Desk - Fall 2016
  - UWF Open House CS Information Desk - Spring 2017
- Committees
  - Curriculum Revision Committee (Undergrad) – Member, *August 2016 – present*
  - ABET accreditation committee – Member, *May 2016 – present*
- New courses developed
  - Introduction to Network Security (CTS1120)
  - Algorithm and Program Design (COP3014) – for new curriculum
  - Systems and Networks – II (COP4635) – for new curriculum
- Faculty recruitment committees – Member
  - CS Faculty Recruitment Committee 2015-16 – Member
  - CS Faculty Recruitment Committee 2016-17 – Member
  - CS Faculty Recruitment Committee 2017-18 – Member
  - Center for Cybersecurity’s Recruitment Committee 2017-18 – Member

#### ***Service to the College***

- Summer Undergraduate Research Program Committee, 2016 – Member
- Summer Undergraduate Research Program Committee, 2017 – Member
- Resource Allocation Committee – Member, *August 2016 - present*

#### ***Service to the University***

- CyberThon yearly events – UWF Team Mentor, *January 2016 – present*
  - Mentor for a Blue Team participating in CyberThon 2016 and the winning UWF team in CyberThon 2017, Pensacola, FL, USA
  - Mentor for a Blue Team participating in CyberThon 2016 and the winning UWF team in CyberThon 2017, Pensacola, FL, USA
- ‘Office of Undergraduate Research’ Project Awards committee – Member, Reviewer, *August 2016 – July 2019*
  - Fall-2015, proposals reviewed - 4
  - Spring-2016, proposals reviewed – 4
  - Fall-2016, proposals reviewed – 4
  - Spring-2017, proposals reviewed – 3
  - Summer Research (2016-18) – decided on proposals to be funded depending on requirement and availability
- University Commencement Ceremonies – Volunteer (Marshal, Hooder)
- President’s Scholarship Competition – Interviewer, *August 2015 - present*
- UWF Growth and Development Committee – Member, *August 2017 – July 2019*

#### ***Service to the Community***



- Volunteer for preparing the middle-school students' team for the CyberPatriot competitions at Ferry Pass Middle School, Pensacola, FL where I teach computer programming and cyber-security basics since 2016 (continuing)
- Kiwanis Club talks – Speaker on Cybersecurity awareness, *October 2017*
- West Panhandle Regional Science and Engineering Fairs – Judge
  - 61st West Panhandle Regional Science and Engineering Fair 2016, Category - Biomedical Engineering, Projects reviewed – 16
  - 62nd West Panhandle Regional Science and Engineering Fair 2017, Category - Physics and Astronomy, Projects reviewed – 16
  - 63rd West Panhandle Regional Science and Engineering Fair 2018, Category – 1. Intelligent Machines, Robotics & System Software; 2. Mathematics & Computational Sciences, Projects reviewed – 15
  - 64th West Panhandle Regional Science and Engineering Fair 2019, Category - Computer Science, Projects reviewed – 12
- Grad Student Volunteer at University of Cincinnati – Computer Science Summer Camps
  - June 2009*
    - Taught "Beginners' Java Programming" and in making robotics and sensors projects in two-week long Summer Camp - 2009 for high school students
  - June 2010*
    - Taught "Beginners' Java Programming" and helped in making robotics and sensors projects in two-week long Summer Camp - 2010 for high school students
  - June 2011*
    - Taught "Beginners' Java Programming" and in making robotics and sensors projects in two-week long Summer Camp - 2009 for high school students

## **PROFESSIONAL DEVELOPMENT**

- Florida Center for Cybersecurity 2015 Annual Conference, Miami, FL, USA– Attendee
- S2ERC (Security and Software Engg Research Center) Showcase –2016, Pensacola, FL, USA – Attendee
- HMCSE Grant Writing Workshop, Pensacola, FL, USA, May 2016 – Attendee
- UWF GROW Award 2016 Summer Course, Pensacola, FL, USA – Attendee
- Online course: Internet of Things: Roadmap to a Connected World (Massachusetts Institute of Technology) – passed and earned the certificate
- NCS 2017 (9th Annual National Cyber Summit), Huntsville, AL, USA 2017– Attendee
- CUTLA Workshops, UWF, Pensacola, FL, USA
  - Workshop: Grant Writing for External Funding of Scholarship, 2015
  - Workshop: Document the Quality of Your Teaching, 2016
  - Workshop: Document the Quality of Your Research, 2016
  - Workshop: Guidelines for Curriculum Assessment, 2017
  - Teaching Partners Workshop, 2018
  - My conference has gone online! Managing Remote Conference Presentations, 2020
- ATC Courses, UWF, Pensacola, FL, USA
  - Clickers Training, 2016
  - Designing a Quality Online Course (6-week fully online course), 2016
  - Teaching a Quality Online Course (6-week fully online course), 2016
  - "Quality Online Instructor Course" Series Certificate, 2016
  - TURNITIN Workshops, 2018
- Law Room – UWF, Pensacola, FL, USA
  - Certified Knowledge Worker, 2017
  - Certified Anti-Harassment Associate, 2020
  - Kognito: At-Risk Training, 2020
  - Certified COVID-19 Employee, 2020
- Workshop: HMCSE Summer Faculty Workshop, UWF, Pensacola, FL, USA, 2018 – Attendee
- UWF Student Mentoring Workshop, Pensacola, FL, USA, 2019 – Attendee

- Workshop: Building and Hacking an Exploitable WiFi Environment for your Classroom, offered by University of Pittsburgh, January 2021 – Attendee

## **STUDENTS GUIDED**

### **Graduate Students**

Jeremy P Stokes (2018), Jonathan Jurczak (2018), Debhargya Nandi (2018), Stephen Hopkins (2019), Melissa Nichols (2021)

### **Thesis Committees**

- Stephen Hopkins, 2019-2020

### **Directed Studies and Undergraduate Research**

Melissa Nichols (2017-2019), Michael Kuklish (2018-2019), Daniel Kelley (2018-2019), John Chamblee (2018-2019), Bhavyansh Mishra (2018-2019), Zachary Mueller (2019-2020), Carolyn Henry (2019-2020), Martin Kadzis (2019- 2020)

## **Accolades**

1. Project with College Conservatory of Music, University of Cincinnati (UC) was the cover story of UC Grad School Yearbook 2009
2. National Institute of Personnel Management (NIPM) – Post Graduate Diploma in Personnel Management Examination 2004
  - i. Tarneja National Award – Recitation and Cash award
  - ii. NIPM Proficiency Gold Medal
  - iii. All India OE Gold Medal for highest marks in “Industrial Relations” paper
  - iv. Karnataka State Gold Medal for highest percentage of marks in the country
3. University topper, M.Tech. (Instrumentation), Class of 2001, Devi Ahilya University, Indore