

Name Dr. Iftekhar Ibne Basith

Title/ Position: Assistant Professor

Department Engineering Technology

College of Sciences and Engineering Technology (CoSET)

Degrees Earned

1. PhD, Electrical and Computer Engineering, University of Windsor, Windsor, ON, Canada (2016)
2. MASc, Electrical and Computer Engineering, University of Windsor, Windsor, ON, Canada (2014)
3. BSc Engineering, Computer Science and Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh (2001)

Work or Professional Experiences

- a. Assistant Professor, Tenure Track (Jan 2017-present)
Department of Engineering Technology (DET)
Sam Houston State University (SHSU)

2. Faculty Advisor for KatatroniX Robotics club ~~ETEC~~ Student Ambassadors.
 3. Served as professional referee for many ET graduating students.
 4. Mentoring following students for funded/~~not~~ funded projects:
 - x Ferhat Ozdemir (pl and EC Reader, as PI for the internal ~~ab~~ SET funding received in 2021-2022, accepted for publication in The Technology Interface International Journal for Spring 2023 issue)
 - x Joe Narvis Louanne Moze Sallo (as PI for the internal ORSP funding continuation 2022-2023)
 - x Devyn Matthews (as PI for the STEM Center Mini Grant funding received for 2022-2023)
 - x Devyn Matthews (as Co-PI for the USDA-APHIS funding received for 2021-2022, and Paper presented in the 2022 ASEE Annual Conference)
 - x Paul A. Paschal (Paper presented in the 2022 ASEE Annual Conference)
 - x Y Luong, William Lasater (as PI for the internal ORSP funding received for 2021-2022)
 - x Gorzdo Sanchez (ASEE and Lockheed Martin Funded project, acknowledged in ASEE 2020 Annual Conference) This project received nationwide acknowledgement, please visit following link:
<https://2020honors.asee.org/>
- x

- Modified the existing ETEE 1340 course based on the safety module developed as part of STEM Center mini grant in Fall 2022
- Served as a member of APC (Academic Policy Committee) and PDC (Program Development Committee) as GSS Graduate Student Society President (2013-2016) at University of Windsor, Canada.

Professional Services

Reviewer

1. MDPI Electronics Open Access Journal, 2019-Present
2. IEEE Transactions on Instrumentation & Measurement (TIM) 2016-Present
3. IEEE Midwest Symposium on Circuits and Systems (MWSCAS), 2016-Present
4. Journal of Engineering Technology (JET), 2017-Present
5. IET Circuits, Devices and Systems, 2018-Present
6. ASEE Annual and Regional Conference Reviewer, 2017-Present

SHSU Committees:

- a. Engineering Technology (ETC) Ambassadors and Outreach Committee Chair/Advisor
- b. Biomedical Engineering Technology (BMET) committee Chair
- c. Course Scheduling Committee ECE-ETEE Chair/ Committee Member
- d. ECET/ETEE Weekly Meeting- Chair/Coordinator
- e. Saturdays@Sam Chair/Coordinator
- f. ExCE@Sam- Chair/Coordinator Member
- g. Student Worker Hiring Committee Chair
- h. Annual ETEC Honors Banquet Chair/Coordinator
- i. ETEC Nomination Committee Chair/Coordinator
- j. University Emeritus Faculty Evaluation Committee Member
- k. COSET Faculty/Staff Annual Fund Raising Committee Member
- l. International Transcript Evaluator for CoSEM Member
- m. META Assessment Committee Member
- n. ETEC Curriculum Committee Member
- o. Accreditation Program Assessment Committee (SACS & ABET) Member
- p. ETEC Scholarship Committee Member
- q. Faculty

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National Science Foundation Research Experience for Teachers	Federal	Research	Sam Houston Sta University	Submitted
Texas Workforce Commission	State	Research	Sam Houston Sta University	Submitted
SHSU STEM Center Supplemental Mini Grant	Institutional	Research	Sam Houston Sta University	Funded 2023/0 – 2023/0002MCID 22

4. Iftekhar Ibne Basith, Lance Sebesta, Matthew Hebert, and Jeremy Engler - Full Adder- Using Analog Components for Digital Logic the

7. Paul A Paschal and Iftekhar Ibne Basith, BYOE: DIY Handheld Video Game Console, in the ASEE Annual Conference and Exposition, Minneapolis, Minnesota, June 26-29, 2022
8. Iftekhar Ibne Basith, Vajih Khan and Michelle Boyt, Post COVID-19 Challenges and Solution for Engineering Technology Recruiting and Outreach, in the ASEE INL Regional Conference, Anderson University, Indiana, April 9th, 2022
9. Vajih Khan, and Iftekhar Ibne Basith, Application of Metaverse as an Immersive Teaching Tool in Engineering Technology Classroom, in the ASEE INL Regional Conference, Anderson University, Indiana, April 9th, 2022.
10. Ulan Dakeev, Reg Pecen, Faruk Yildiz, Suleiman M Obeidat, Lain Edwards and Iftekhar Ibne Basith, "Development of Virtual Reality Robotics Laboratory Simulation", in the ASEE Zone IV Regional Conference, University of British Columbia, Vancouver, Canada, May 1-4. (2022)
11. Iftekhar Ibne Basith, and Joseph Strachan, "Automated Oscillating Fan", in the ASEE Gulf South West Section Conference at Baylor University, Waco, TX, USA, March 26, 2021.
12. Iftekhar Ibne Basith, Raisa Sara, ABM Rezbaul, Jasraheda Sultan and Khalid M Khan, "A Teachers Roundtable on the Impact of COVID-19 on Courses Delivery in Multiple Disciplines", in the ASEE Annual Conference and Exposition at Long Beach, CA, USA, 30, June 2021.
13. Iftekhar Ibne Basith, Junkun Ma, and Faruk Yildiz, "Certification and Training for Automation and Mechatronics", in the ASEE Annual Conference, Ankara, Turkey, 07-11, July 2021.

21. Reg Recayi Pecen, Faruk Yildiz and Iftekhar Ibne Basith, "An Effective Industry Partnership to Develop Tomorrow's Workforce", published in the 125th ASEE Annual Conference and Exposition at Salt Lake City, UT, June 27-28, 2018
22. Iftekhar Ibne Basith, and Faruk Yildiz, "New Methods to Reduce the Bus Switching Activities to Minimize Power Consumption", in the 7th International Symposium on Energy, North Sea Conference and Journal, August 12, 2017, Manchester, UK.
23. Faruk Yildiz, Keith Coogler and Iftekhar Ibne Basith, "Design of a Hybrid Solar Photovoltaic and Thermal Unit to Teach How Weather Affects to the Power Characteristics of Solar Modules", in the 7th International Symposium on Energy, North Sea Conference and Journal, August 13, 2017, Manchester, UK.
24. Iftekhar Ibne Basith, Tareq Mohammad Supon, Esam Abdel Raheem, And Rashid Rashidzadeh, "Comparative Study on Bus Coding Schemes and Improvement on SINV Coding", in the proceedings of IEEE 28th International Conference on Microelectronics (ICM), December 17-20, 2016, Cairo, Egypt, page(s): 20.
25. Iftekhar Ibne Basith, Rashid Rashidzadeh, and Esam Abdel Raheem, "Contacai-3.4 (C)14p2 (</MCID 175

2. N. Kandalafi, I. Basith, R. Rashidzadeh, Majid Ahmadi (October 11, 2012) "High Density MEMS Probe Card for High Speed Wafer Level Testing", presented in the CMC TEXPO research competition 2012, Toronto, ON, Canada.
3. Iftekhar I. Basith, N. Kandalafi, R. Rashidzadeh and M. Ahmadi, "A New Integrated Readout and BIST Solution for MEMS Sensors", presented in the CMC TEXPO research competition 2011, October 19-20, 2011, Gatineau, QC, Canada.
4. Iftekhar I. Basith, N. Kandalafi, R. Rashidzadeh and M. Ahmadi, "A New BIST Architecture for MEMS Fault Detection", presented in the CMC TEXPO research competition 2010, October 4, 5 2010, Ottawa, ON, Canada.

x Research Monographs and Technical Reports

1. Iftekhar Ibne Basith, "Design and Analysis of a Charge Pump Phase Locked Loop (CPPLL) using CMOS 65nm technology", submitted to the Research Center for Integrated Microsystems (RCIM)

