Faculty C.V.

1. **Name**

   Jibran Khan Yousafzai

2. **Academic Rank**

   Associate Professor, Full-time

3. **Degrees**

   Ph.D. (Electronic Engineering) – 2010, *King's College London, UK.*
   M.Sc. (Digital Signal Processing) – 2006, *King's College London, UK.*
   B.S. (Computer System Engineering) – 2004, *Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan.*

4. **Service at this Institution**

   Associate Professor of Electrical and Computer Engineering, *September 2023 – present.*
   Assistant Professor of Electrical and Computer Engineering, *July 2011 – September 2023*

5. **Professional Registration**

   PEC – *Pakistan Engineering Council*

6. **Selected Publications**

   - **J. Yousafzai**, A. Yousafzai "A brick-by-brick approach to learning MIPS microarchitecture," *IEEE Global Engineering Education Conference (EDUCON) 2023, pages: 1-5.* https://doi.org/10.1109/EDUCON54358.2023.10125135

   - I. Damaj, **J. Yousafzai**, H. Mouftah, "Future trends in connected and autonomous vehicles: enabling communication and processing technologies" – *IEEE ACCESS, Vol. 10, pages: 42334 – 42345, April 2022.* https://doi.org/10.1109/ACCESS.2022.3168320

   - I. Damaj, **J. Yousafzai**, "Effective assessment of student outcomes in computer engineering programs using a minimalistic framework" – *International Journal of Engineering Education, Vol. 35 (1A), pages: 59 – 75, 2019.* https://www.ijee.ie/contents/c350119A.html

   - A. Zaher, **J. Yousafzai**, "An adaptive control approach to securely transmit colored images using chaos-based cryptography" – *The 62nd IEEE Midwest Symposium on Circuits and Systems, pages: 953 – 956, 2019.* https://doi.org/10.1109/MWSCAS.2019.8885161

7. **Membership in Professional Societies**

   IEEE – *Institute of Electrical and Electronic Engineers, IEEE Signal Processing Society and IEEE Robotics Society*
   IET – *Institution of Engineering and Technology*
   PEC – *Pakistan Engineering Council*

8. **Patents, Honors and awards**

Best Paper Award, *IEEE EDUCON Conference, 2015*

9. **Academic Courses (since 2019)**

Digital Signal Processing
Signals and Systems
Signals and Systems Laboratory
Control Systems
Embedded Systems Design
Computer Organization and Architecture
Digital Logic Design
Digital Logic Design Laboratory
Engineering Economics
Internship in Computer/Electrical Engineering
Senior Capstone Design I
Senior Capstone Design II

10. **Committees**

a) Department

Member, ECE Assessment and Curriculum Committee, Fall 2017 – Present
Chair, ECE Project Evaluation Committee, Fall 2013 – Spring 2018
Member, ECE Project Evaluation Committee, Fall 2018 – Present
Organizer of ECE Exhibition and Seminar Series, 2018-19
Member, ECE Industrial Advisory Board, Fall 2015 – Spring 2018
Member, ECE Student Liaison Committee, Fall 2016 – Spring 2018
Member, ECE Student Advisory Board, Fall 2018 – Present
Member, ECE Data Collection Committee for the ABET Accreditation of the Computer Engineering Program, Spring 2012 – Spring 2018
Member, ECE Adhoc Curriculum Committee, Fall 2018
Member, ECE Ad hoc Committee for Engineering Mathematics, Fall 2011

b) College level

Member, College (CEAS) Curriculum & Assessment Committee, Fall 2020 –present
Member, College (CEAS) Academic Quality Committee, Fall 2020 – present
Member, College (CEAS) Promotion Advisory Committee, Spring 2024.
Member, College (CEAS) Hiring Committee, Fall 2022 - present
Member, College (CEAS) Academic Honesty Committee, Fall 2022 – present
Member, College (CAS) Assessment Committee, Fall 2016 – Spring 2018

c) Institution level

Member, Institutional Review Board, Fall 2022 – present
Member, Student Code of Conduct Board, Fall 2020 –
Member, University Computing & Technology Committee, Fall 2019 – Spring 2020
Member, University Curriculum Committee, Fall 2012 – Spring 2015
Member, University Grade Appeal Committee, Fall 2014 – Fall 2016
Member, University Founder's Award Committee, Spring 2016
Member, University Grade Distribution Committee, Spring 2012

d) Professional service outside the institution

- Reviewed papers for
    - *IEEE Transactions on Education*
    - *IEEE Transactions on Audio, Speech and Language Processing*
    - *IEEE Access*
    - *Computers and Electrical Engineeing, Elsevier*
    - *Higher Education Pedagogies, Taylor & Francis*
    - *International Journal of Engineering Pedagogy*
    - *IEEE International Conference on Engineering Education (EDUCON)*
    - *IEEE World Engineering Education Conference (EDUNINE)*
    - *International Speech Communication Association Conference*
    - *European Signal Processing Conference*

- Co-chair, Technical Program Committee, *EDUCON 2023*.
- Served as session chair at *IEEE EDUCON* and *INTERSPEECH*.
- Served on examination committees of M.S. theses from Beirut Arab University, 2021.