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## Profile

A highly competent Computer Science and Engineering Lecturer with nearly 16 years of qualitative experience in various best practices for curriculum and training design, teaching & instruction for individuals and groups, measurement of training effects. Highly motivated individual with outstanding presentation, research & communication skills. Expertise in teaching & monitoring students, managing administrative matters and serving on various committees (curriculum & faculty etc.)

## Professional Experience

**Lecturer in Department of Computer Science**          **February 2015 – Present**

Jazan University, Saudi Arabia

**Assistant Professor in Computer Science and Engineering**          November 2012 – March2014

Mount Zion College of Engineering, Mahatma Gandhi University, India

**Assistant Professor in Computer Science and Engineering**     Jun'2010 – Oct'2010

Oct'2011 – Jul'2012

Mount Zion College of Engineering for Women, Kerala University, India

**Lecturer in Computer Science and Information Technology**     Aug'2008 – Jul'2010

KVM College of Engineering and Information Technology, Kerala University, India.

**Lecturer in Computer Science**                    Jul'2005 – Oct'2006
KVVS College of Science and Technology, Kerala University, India.

## Activities Done for the Department

Worked as Excellent Unit Coordinator for Female and worked as the instructor for CCNA Routing and Switching

Worked as a Member for Lab Committee.

Working as the in charge for the Quality Standard-1 for Management and Information System.

Worked and working as course coordinator for different courses of MIS department.

## Education

PhD in Computer Science and Engineering ,St Peter's Institute of Higher Education and Research, Chennai India,2017.

Master in Engineering Computer Science and Engineering, Anna University, Chennai, India, 2008.

Master in Computer Application, Anna University, Chennai, India, 2005.

## Certifications

CCNA (Routing & Switching) Certified, CISCO IDCSCO12413974

Graduate Certificate in Information Security Professionals, EC-COUNCIL University, New Mexico, USA, Student Id: 2020000201

## CONFERENCES, PUBLICATIONS and BOOK CHAPTER (under Jazan University)

**[Google Scholar:** Betty Elezebeth Samuel-Google Scholar]

- Exchange matching algorithm for low-complexity traffic scheduling for 5G fronthaul networks. Networks Attack Detection on 5G Networks using Data Mining Techniques (1st ed.). CRC Press. https://doi.org/10.1201/9781003470281, April 2024.

- An Improved Explainable Artificial Intelligence for Intrusion Detection System, International Journal of Intelligent Systems and Applications in Engineering, 108–115, Vol. 12 No. 14s, February, 2024.

- Blockchain-Based Privacy-Preserving Electronics Healthcare Records in Healthcare 4.0 Using Proxy Re-Encryption. In: Goundar, S., Anandan, R. (eds), Integrating Blockchain and Artificial Intelligence for Industry 4.0 Innovations. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-35751-0_6, October 2023.

- Mobile edge computing for efficient energy management systems, Human-Assisted Intelligent Computing Modeling, simulations and applications, IOP Publishing, https://doi.org/10.1088/978-0-7503-4801-0ch16,April 2023.

- "A Review of Efficient Mobility Techniques for Privacy and Secured Cloud Computing Architectures for Infrastructure as a Service."7th International Conference on Communication and Electronics Systems (ICCES), IEEE, 2022.

- "An Application Framework for Block Chain on Smart Factory Locations Using a Datacenter Approach", Proceedings of 7th International Congress on Information and Communication Technology, Lecturer Notes in Networks and Systems,pp.389-397 ,Springer2022.

- "Efficient Optimization Algorithms for Minimizing Delay and Packet Loss in Doppler and Geometric Spreading Environment in Under Water Sensor Networks". *Wireless Personal Communication, Springer, 2021.*

- "Outdoor Navigation and Tracking System Using Low Energy Bluetooth Network", International Journal of Science and Research (IJSR) ,Vol-10,Page:1009-1014,DOI: 10.21275/SR211014155146,2021.

- "Improving Packet Delivery Performance in Water Column Variations through LOCAN in Under Water Acoustic Sensor Network", Journal of Sensors, Hindawai, Vol 2020, Article ID 7960654, 2020.

## PATENT (under Jazan University)

- Electronic Glove for Women Safety, Patent Application Number-385873-001

## AREA OF INTEREST

- Artificial Intelligence

- Blockchain

- Cloud Computing

- Networking

- Wireless Sensor Networks

## MEMBERSHIPS

- Member of Computer Science Teacher Association

- Life Member of Indian Society for Technical Education (ISTE), LM90704

- Member of the International Association of Engineers (IAENG), 136141

## CONFERENCE AND PUBLICATIONS (External)

- "Implementation of model predictive control in real time systems, "International Journal of Scientific and Technical Advancements (IJSTA), vol. 2, issue 1, pp. 123- 126, 2016.

- A survey on Robust Model Predictive Control, Glacier Journal of Scientific Research, ISSN: 2349-8498, Vol. 9, Issue 2, January2016.

- Artificial neural network model based predictive control for continuous stirred tank reactor, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.60(2015)

- An Adaptive Neural Network Based on Model Prediction Control Using Levenberg Marquardt, International Conference on Emerging Trends in Engineering and Technology (IFERP,2014)

- Cloud Computing: Benefits and Challenges in International conference held at Maria College of Engineering based on the topic Emerging Trends in Computer and Communication Technologies ('EMICS 2012)

- Presented a Paper on 'Cloud Computing Security Concerns' held at Musaliar College of Engineering & Technology based on topic Current Trends in Computing, India (NCCTC2012)

## TRAINING (External)

- In-Plant Training in National Thermal Power Corporation, India
- Open Source (Linux-RHCE) training held at KVM College of Engineering & Information Technology, Cherthala, Allapuzha, India.