

SHIJIN KNOX G.U

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Employment History

- 2015 – **Assistant Professor** Department of Information Technology, Govt.Engineering College BartonHill Thiruvananthapuram.
- 2014 – 2015 **Assistant Professor** Department of Computer Applications, College of Engineering Trivandrum, Thiruvananthapuram.
- 2012 – 2014 **Assistant Professor** Department of Information Technology, Govt.Engineering College Idukki, Idukki

Education

- July 2007 **M.Tech. Computer Science and Engineering specialized in Digital Image Computing, University of Kerala**
- May 2004 **B.Tech. Information Technology, Cochin University of Science and Technology**

Research Interests

- Image processing, Signal processing, Computer vision, Deep learning, Medical Imaging, Artificial Intelligence, Machine Learning
- Coding **Java, PHP, Python, SQL, XML/XSL, L^AT_EX**
- Databases **MySQL, PostgreSQL**
- Web Dev **HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server.**
- Misc. **Academic research, teaching.**

Research Publications

Journal Articles

- 1 Najila. A.L, G. U., Shijin Knox. (2021). A study on automatic pedestrian detection using computer vision. *International Research Journal of Engineering and Technology (IRJET)*, Volume: 08 Issue: 05, May 2021, 4553–4557.
- 2 Athulya M, G. U., Shijin Knox. (2019). A novel approach for implementing a blackbox system in cloud-vanet. *International Journal of Engineering Research Technology (IJERT)*, Vol. 8 Issue 07, July-2019, 988–992.
- 3 Soorya V Nair, G. U., Shijin Knox. (2019). Energy efficiency and network lifetime improvement in manet using aomdv. *International Journal of Engineering Research Technology (IJERT)*, Vol. 8 Issue 08, August-2019, 10–14.

- 4 Anju John, G. U., Shijin Knox. (2016). A review on black hole attack in manets. *International Journal of Innovative Research in Science, Engineering and Technology, Volume 5, Special Issue 14, December 2016*, 90.
- 5 Lakshmi Mohandas, G. U., Shijin Knox. (2016). Opportunistic routing protocols in manet - a survey. *International Journal of Innovative Research in Science, Engineering and Technology, Volume 5, Special Issue 14, December 2016*(1), 90.

Conference Proceedings

- 1 Shijin Knox, C. A. S., Anju R S. (2014). Fast real time door lock security system using face detection and recognition. In *National conference on communication and signal processing - cosp* (pp. 90–95). IEEE.

Participation in Faculty Development Programs

- KTU sponsored 30 hours online FDP on 'Mathematics for Machine Learning' organized at College of Engineering Trivandrum from 30 June 2021 to 16 July 2021
- ATAL Academy 5 day Online Elementary FDP on 'Introductory Data Science and Deep Learning' organized at International Institute of Information Technology - Naya Raipur from 16/07/2021 to 20/07/2021.
- ATAL Academy 5 day Online FDP on 'Block chain' organized at Viswajyothi College Of Engineering And Technology from 2020-10-19 to 2020-10-23.
- ATAL Academy 5 day Online FDP on 'MEDICAL IMAGE PROCESSING AND DEEP LEARNING TECHNOLOGIES' organized at PANIMALAR INSTITUTE OF TECHNOLOGY from 2020-9-21 to 2020-9-25.
- GEBH sponsored 6 day course on 'Mathematical Foundation on Logic and Combinatorics' organised by IT dept, Government Engineering College Barton Hill , TVM from 02 December 2019 to 07 December 2019.
- TPLC sponsored 5 day course on 'Open source tools for research - OSTR 2019' organised by Translational research and professional leadership centre, Government Engineering College Barton Hill , TVM from 28 October 2019 to 02 November 2019.
- GEBH sponsored 5 day FDP on 'Maths4CS' organised by IT dept, Government Engineering College Barton Hill , TVM from 04 January 2017 to 07 January 2017.
- NPC sponsored 5 day Residential training programme on 'Project management and strategic financial planning' organized at Gangtok, Sikkim from 02 May 2016 to 06 May 2016.
- TEQIP-II sponsored 9 day FDP on 'Advanced computer architecture' organised by IT dept, Government Engineering College Barton Hill , TVM from 25 February 2016 to 02 March 2016.
- TEQIP-II sponsored 2 day Workshop on 'Network Security' organised by IT dept, Government Engineering College Barton Hill , TVM from 07 October 2016 to 08 October 2016.
- TEQIP-II sponsored 3 day STTP on 'Python and Ruby' organised by IT dept, Government Engineering College Barton Hill , TVM from 29 June 2015 to 01 July 2015.

Participation in Faculty Development Programs (continued)

- TEQIP-II sponsored in association with ISTE Kerala 3 day STTP on 'Induction Programme for Faculty' organised by Government Engineering College Barton Hill , TVM from 09 July 2015 to 11 July 2015.
- ISTE sponsored 1 day workshop on 'Academic audit and online evaluation of AKTU' organised by Government Engineering College Barton Hill , TVM, KTU, ISTE on 20 November 2015.
- TEQIP-II sponsored 3 day STTP on 'Interpersonal Relationship' organised by Personal growth centre, Government Engineering College Barton Hill , TVM from 09 December 2015 to 11 December 2015.
- DTE sponsored 6 day STTP on 'Cloud computing and linux security' organised by IT dept, Government Engineering College Barton Hill, TVM from 05 October 2015 to 10 October 2015.
- IIT sponsored 3 day Faculty development programme organised by Teaching learning centre, IIT Madras from 21 September 2015 to 23 September 2015.
- TEQIP-II sponsored 3 day STTP on 'Embedded Linux' organised by IT Dept, Government Engineering College Idukki from 07 March 2014 to 09 March 2014.
- DTE sponsored 5 day STTP on 'Embedded System Development 'organised by CS Dept, College of engineering Trivandrum from 01 September 2014 to 05 September 2014.
- NPTEL sponsored 2 day NPTEL Kerala workshop organised by Govt. College of engineering Kannur & Chinmaya institute of technology Kannur from 20 October 2014 to 21 October 2014.
- ISTE sponsored 1 day national workshop on 'Industry institute interaction awareness programme' organised by College of engineering Trivandrum chapter on 23 May 2014.
- TEQIP-II sponsored 5 day STTP on 'Computer & Network security' organised by IT Dept, Government Engineering College Idukki from 28 January 2013 to 01 February 2013.
- TEQIP-II sponsored 5 day STTP on 'Modelling object oriented systems using rational tools' organised by CS Dept, Government Engineering College Idukki from 11 February 2013 to 15 February 2013.
- ESCI sponsored 3 day continuing professional development programme on 'Cloud computing' organised by ESCI Hyderabad from 05 February 2013 to 07 February 2013.
- DTE sponsored 5 day FDP on 'Operating systems and network programming' organised by IT/CS Dept, Marian engineering college kazhakkootam from 02 December 2013 to 06 December 2013.
- DCE sponsored 5 day FLAIR induction training programme on 'Good Learning' organised by Fostering linkages in academic innovation and research from 07 October 2013 to 11 October 2013.
- MHRD sponsored 5 day STTP on 'Cloud computing through ICT' organised by CS Dept, NITTTR, Chandigarh from 29 July 2013 to 02 August 2013.

Participation in Faculty Development Programs (continued)

- MHRD sponsored 2 weeks ISTE Workshop on 'Database management systems' organised by IIT, Bombay from 21 May 2013 to 31 May 2013.
- TEQIP-II sponsored 3 day STTP on 'Financial Management' organised by IT Dept, Government Engineering College Idukki from 27 September 2013 to 29 September 2013.

Guidance of M.Tech Students

- Guided two students of M.Tech in Network Engineering, GEC BartonHill 2015-2017 Admissions.
ANJU JOHN-TRV15ITNE03 - AODV BASED DETECTION PREVENTION AND MITIGATION OF BLACKHOLE ATTACK IN MANET
LAKSHMI MOHANDAS-TRV15ITNE15 - QoS ENHANCEMENT OF AOMDV BY ENERGY EFFICIENT, PRIORITY AND BANDWIDTH AWARE MECHANISM
- Guided two students of M.Tech in Network Engineering, GEC BartonHill 2016-2018 Admissions.
SHEFNA M-TRV16ITNE17 - DETECTING THYROID CANCER USING NUCLEI STRUCTURE WITH LS-SVM.
ANSULA A.S-TRV16ITNE05 - BRAIN TUMOR DETECTION AND STAGES IDENTIFICATION USING ANN AND SVM.
- Guided two students of M.Tech in Network Engineering, GEC BartonHill 2018-2020 Admissions.
ATHULYA M-TRV17ITNE06 - An Efficient Algorithm for Implementing a Black Box System in Cloud-VANET
SOORYA V NAIR-TRV17ITNE15 - ENERGY EFFICIENCY AND NETWORK LIFETIME IMPROVEMENT IN MANET USING AOMDV
- Guided two students of M.Tech in Network Engineering, GEC BartonHill 2018-2020 Admissions.
SHILPA MANOHARAN-TRV17ITNE14 - ENHANCED HEURISTIC CLOUDLET ALLOCATION BASED ON EXECUTION TIME AND EARLIEST FINISH TIME
SHALINY STANLY A-TRV18ITNE16 - Design and Development of an Open Platform for Heterogeneous Software Defined Wireless Sensor Networks
- Guided one student of M.Tech in Network Engineering, GEC BartonHill 2019-2021 Admissions.
NAJILA A L-TRV19ITNE10-Pedestrian Detection and Tracking for Autonomous Vehicles

Responsibilities/Position(Department,College, University)

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|-------------|---|
| 2015 – 2021 | ■ Subjects dealt: Sustainable Engineering, Introduction to computing and problem solving, Object oriented techniques, Software architecture and design, Internet technology, Information Retrieval, Web application development, Object Oriented Programming, Network routing protocols, Web technologies, Modern computing paradigms, Network architecture and design |
| 2018-2021 | ■ Secretary , Parent Teacher Association, Government Engineering College, Baton Hill, Thiruvananthapuram |
| 2015-2017 | ■ Treasurer , Parent Teacher Association, Government Engineering College, Baton Hill, Thiruvananthapuram |

Responsibilities/Position(Department,College, University) (continued)

- 2018-2021 **Convener**, Innovation and Entrepreneurship Development Centre, Government Engineering College, Baton Hill, Thiruvananthapuram
- 2018-2019 **Convener**, AAGNEYA, Techno-cultural Festival, Government Engineering College, Baton Hill, Thiruvananthapuram
- 2020 **Syllabus setter**, Syllabus Committee member for third semester (B.Tech Information Technology)APJ Abdul Kalam Technological University Curriculum 2019.

Declaration

I declare that the foregoing information is true to the best of my knowledge and belief.

Shijin Knox G.U