

Industrial Experience	Jan 2003 – Jun 2006	C.A.R.E. Pvt. Ltd.	Islamabad, Pakistan
	Designation: Senior Design Engineer <ul style="list-style-type: none"> Computer Networks & Applications, Device Driver Development Designation: Design Engineer <ul style="list-style-type: none"> Embedded System Design & Development, Assembly Language Programming, Image Processing Applications 		
	Jul 2002 – Jan 2003	Communications Enabling Technologies	Islamabad, Pakistan
	Designation: Design Engineer <ul style="list-style-type: none"> Computer Networks & Applications 		
Professional Trainings	<ul style="list-style-type: none"> 1 week “train the trainers” course on “DNS Security and Operations” conducted by ICANN Middle East in Dubai (April 2015) 3-day training on DNS Security at SEECS-NUST (April 2015) 1 week training on teaching, learning and assessment at Lancaster University, UK (Mar 2012) <ul style="list-style-type: none"> Teaching methodologies and aids Curriculum design and development Assessment schemes 1 week training at Lancaster University, UK (February 2013) <ul style="list-style-type: none"> Research methodologies Research collaboration 		
Research Supervision	<ul style="list-style-type: none"> Successfully supervised 1 PhD Student Co-supervising 2 PhD students at CUST, Islamabad Co-supervised 2 MS students thesis at INRIA, Sophia Antipolis, France (2010/2011) 		
Professional & Academic Achievements	<ul style="list-style-type: none"> ICANN’s designated volunteer trainer on DNS Operations and Security for the Middle East and Adjoining Countries (MEAC) region ICANN Fellowship for ICANN 50th Meeting (London), 52nd Meeting (Singapore), 53rd Meeting (Buenos Aires), 54th Meeting (Dublin), 55th Meeting (Morocco) and 56th Meeting (Helsinki) ISOC Fellowship for IETF 92nd Meeting to be held in Dallas, TX, USA, March 2015 Performance honorarium for the year 2011/12 and 2012/13 from CIIT, Lahore Research Productivity Award for the year 2011 from CIIT, Lahore PhD with distinction “Très Honorable” at INRIA/University of Nice, Sophia Antipolis, France 2nd position in Master RSD at University of Nice, Sophia Antipolis, France HEC scholarship for MS and PhD studies in France from Government of Pakistan, 2006-2011 Performance Bonus/Letter of Appreciation from CARE Pvt. Ltd for the year 2003/04 Scholarship from Ministry of Science and Technology (MoST), Pakistan for BEng, 2000-2002 Sheikh Zayed’s Scholarship from UAE Government for BEng for performance at HSC level, 1999-2002 Academic Performance Scholarships from National University of Sciences and Technology (NUST), Pakistan for six semesters of Bachelors of Engineering, 1999-2002 5th Position in Bachelors of Computer Engineering at NUST 4th Position in Bahawalpur Board in HSSC Examination in 1998 		
Workshops / Seminars / Talks	<ul style="list-style-type: none"> Delivered a Talk on “Secure Internet” and Panelist at IEEE PSCSC 2016 (April, 2016) Trainer & Faculty Member at 1st Pakistan School on Internet Governance (PKSIG) held at Islamabad, Pakistan (October, 2015) Organized a seminar on “Security, Stability and Resilience in the Internet” at CUST, Islamabad (April, 2015) Panelist in Workshop on “Internet Governance and Role of its Stakeholders” hosted by Ministry of Information Technology and Telecommunications (MoITT), Government of Pakistan (February, 2015) Invited talk on “Software Defined Networks” at National Software Engineering Conference (NSEC), Rawalpindi (December, 2014) Organized and delivered a seminar on “ICANN Functionality and DNS Security Awareness” at CUST (December, 2014) Organized and delivered a two-day workshop on “Scientific Writing and Presentation Skills Development” at CUST, Islamabad (October, 2014) 		

Publications

Citation Count: 442

H-Index: 6

I10-Index: 5

1. “Cooperation in Opportunistic Networks: An Overlay Approach for Destination-Dependent Utility-Based Schemes”, Springer Arabian Journal of Science and Technology, 2016.
2. “Smartphone-Controlled Localization and Management of Home Appliances using IoT”, in Proceedings of ICT-BIO Asia Workshop, 2016.
3. “Resource Aware Routing in Heterogeneous Opportunistic Networks”, Hindawi International Journal of Distributed Sensor Networks, vol. 2016, pages 18, 2016.
4. “Multi-Attribute Caching: Towards Efficient Cache Management in Content-Centric Networks”, in Proceedings of IEEE Consumer Communications & Networking (CCNC) Conference, 2016.
5. “A Multi-Attribute Routing Protocol for Opportunistic Network Environments”, in Proceedings of IEEE ICCCN WiMAN Workshop, 2014.
6. “Taxonomy of Information-Centric Networking: Categorization and Challenges”, in Proceedings of Wireless Optical and Communication Conference (WOCC), 2014.
7. “Delay-Tolerant Networking: Routing Taxonomy and Design”, in Encyclopedia of Wireless and Mobile Communications, Second Edition, Volume I, Taylor and Francis Publishers, ISBN 978-1-4665095-6-6, December 2013.
8. “Analysis of TCP under Wireless Circumstances – A Performance Evaluation”, in Proceedings of IEEE Frontiers of Information Technology (FIT) Conference, 2012.
9. “Message Delivery in Heterogeneous Networks prone to Episodic Connectivity”, ACM/Springer Wireless Networks (WINET) Journal, Vol. 17 No. 8, 2011
10. “Efficient Content Dissemination in Heterogeneous Networks Prone to Episodic Connectivity”, ACM Computer Communications Review (CCR), Vol. 41, No. 4, 2011.
11. “Message Delivery for Intermittently-Connected Heterogeneous Networks”, LAP Publications, pages: 236, ISBN: 978-3-8473-1512-4, 2011.
12. “DTN Routing: Taxonomy & Design”, in Delay Tolerant Networks: Protocols and Applications (2nd Chapter), CRC Press, ISBN: 978-1-4398110-8-5, November, 2011.
13. “Naming for Heterogeneous Networks Prone to Episodic Connectivity”, in Proceedings of IEEE WCNC Conference, 2011.
14. “Towards Truly Heterogeneous Internets: Bridging Infrastructure-based and Infrastructure-less Networks”, in Proceedings IEEE/ACM COMSNETS Conference, 2011.
15. “Routing for Disruption Tolerant Networks: Taxonomy & Design”, ACM/Springer Wireless Networks (WINET) Journal, Vol. 16 No. 8, 2010.
16. “Message Delivery in Heterogeneous Disruption-prone Networks”, in ACM Mobicom, 2010. (Also presented in ACM second Wireless S3 workshop, Chicago, 2010).
17. “MeDeHa – Efficient Message Delivery in Heterogeneous Networks with Intermittent Connectivity”, INRIA Technical Report No. 7227, inria-00464085, 2010.
18. “Coping with Episodic Connectivity in Heterogeneous Networks”, in Proceedings of 11th ACM MSWiM Conference, 2008.
19. “Adaptive Thresholding Technique for Document Image Analysis”, 2004.
20. “A New Algorithm of Stereo Matching using Epipolar Geometry”, in Proceedings of IEEE INMIC Conference 2003.

Technical Publications

1. **R.N.B.Rais** et. al., “RSSAC Advisory on Measurements of the Root Server System”, RSSAC002v3, Published Online <https://www.icann.org/en/system/files/files/rssac-002-measurements-root-06jun16-en.pdf>, 2016.
 2. **R.N.B.Rais** et. al., “MEAC Strategy Working Group Charter”, Version 1, Published Online, <https://community.icann.org/download/attachments/59642230/MEAC%20Strategy%20Working%20Group%20Charter.pdf?version=1&modificationDate=1463826771000&api=v2>, 2016.
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