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Prof. Dr. Ansar-Ul-Haque Yasar

| Education | Degree | Institution | Grade |
|-------------------------|---|--|------------------|
| | Doctorate of Engineering (Computer Science) 10/2007 to 10/2011 | Katholieke Universiteit Leuven, Belgium (www.kuleuven.be) | Awarded – Aug'11 |
| | Masters in Communication and Interactivity 8/2006 to 10/2007 | Linköping University Linköping, Sweden (www.liu.se) | Awarded - 2007 |
| | Bachelors of Computer Software Engineering 8/2001 to 7/2005 | Foundation University Islamabad, Pakistan (www.fui.edu.pk) | Awarded - 2005 |
| Objective | To work in a capacity that would groom and use the best of my technical knowledge, leadership qualities and managerial skills | | |
| Professional Experience | | | |
| | 11/2012 to date | Hasselt University (Transportation Research Institute) | |
| | | Professor for the courses Intelligent Transportation Systems (ITS), Transport Modeling and Transportation Management. | |
| | 10/2011 to date | Hasselt University (Transportation Research Institute) | |
| | | Postdoctoral Researcher Working on Agent-based modeling and scalability issue for the European FP7 DATASIM project. | |
| | 10/2010 to 1/2011 | Katholieke Universiteit Leuven (Dept. of Computer Science) | |
| | | Teaching Assistant for the <i>Computer Architecture and System Software</i> course, responsible for preparing and grading lab work. | |
| | 9/2009 to 1/2010 | Katholieke Universiteit Leuven (Dept. of Computer Science) | |
| | | Teaching Assistant for the <i>Computer Architecture and System Software</i> course, responsible for preparing and grading lab work. | |
| | 8/2010 to 10/2010 | Linköping University Sweden | |
| | | Visiting Researcher at the Security and Networks research group for 3 months. Worked on communication optimization in large scale vehicular networks. | |
| | 1/2007 to 4/2007 | Linköping University Sweden | |
| | | Lab Assistant for the <i>Web Programming and Interactivity</i> course, responsible for checking and grading lab work. This course was based on seven extensive lab tasks. | |
| | 9/2005 to 6/2006 | Federal Urdu University of Arts, Science and Tech Islamabad | |
| | | Visiting Faculty Taught Intro to Telecom, Telecom Systems and Object Oriented Programming. | |
| | 9/2005 to 6/2006 | Air University Islamabad | |
| | | Visiting Faculty Taught Introduction to Computer Programming and Object Oriented Programming. | |
| | 7/2004 to 10/2004 | Softtek Systems Pvt. Ltd Islamabad | |
| | | Software Engineering Internee Worked on many live projects, maintained their website and network. | |
| | 2/2003 to 5/2003 | Petrocon Pvt Ltd. Islamabad | |
| | | Database Developer Automated Chart of Accounts for Petrocon Pvt. Ltd using Oracle 8 and Developer 2000. | |

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| <p>Software Tools</p> | <p>PROGRAMMING OMNET++ (network simulator), C/C++, Java, D/HTML, GW-Basic, VC++, UML,VB, VB.Net, C Sharp, Visual Prolog</p> <p>DATABASES Oracle: SQL and PL/SQL, Oracle Developer 2000, MS SQL Server, Ms-Access, Crystal Report</p> <p>WEB DEVELOPMENT HTML, XML, ASP, ASP.Net, Java Scripting, Joomla(CMS), PHP, SOAP</p> <p>GRAPHICS OpenGL, 3D Studio Max, Adobe Photoshop, Flash MX, Adobe Premier</p> <p>TOOLS UML, Ms-Project, Ascent, ER-Win, Dream Weaver, Adobe GoLive CS</p> |
| <p>Professional Affiliations</p> | <ul style="list-style-type: none"> • Senior Member IEEE • Chartered Engineer UK Engineering Council • UAV Pilot Level A3, A2, A1 (from EU) • Associate Member Computer Society of Pakistan • Fellow British Computer Society • Registered with Pakistan Engineering Council • Member FEANI (EUR ING Title) Belgium • Member of International Human Rights Observer Pakistan |
| <p>Major Research Papers / Articles</p> | <p>More at: https://scholar.google.com/citations?user=NjHWZToAAAAJ&hl=en&oi=ao</p> |
| <p>Research Tasks</p> | <ul style="list-style-type: none"> • Technical Expert COST Action (EU). • Technical Expert EUREKA Eurostar Framework (EU). • Program Chair ANT-2014, 2015 conferences (Belgium & UK). • Reviewer for the International HCI conference 2008. • Member programme committee at International MobileHCI conference 2009. • Reviewer for the International ICMI-MLMI conference 2009. • Chair/Member programme committee at ABMTRANS – 2012, 2013, 2014. • Program vice-chair / track chair ANT'13 conference (Transportation track). • Outstanding service award for being the workshop chair for ABMTRANS'12 at the 3rd International conference on ambient systems, networks and technologies (ANT'12), Niagara Falls, Canada (27-29 Aug, 2012). |
| <p>Research Work</p> | <p><u>Ph.D. Research</u> Context-based Communication in Large Scale Vehicular Networks. Details: Efficient delivery of information in vehicular networks is crucial for the creation of useful and usable applications that need to cope with nomadic large-scale environments. Context-awareness is often a key to improve efficiency of a vehicle network since it allows making informed decisions on the data routing, data locality and data necessity for different moving objects. We propose context-aware routing and filtering strategies to optimize the information flow between the nodes in the networks. This work was a part of the CoLaSue project under the supervision of Prof. Yolande Berbers at K.U. Leuven.</p> <p><u>Masters Research</u> A Computational Analysis of Driving Variations in a Distributed Simulated Driving Environment. Details: The research was conducted at the Linkoping University (LiU) in the Cognitive Engineering group. The work describes and discusses the possible driving variations at T-intersections. In this study we analyzed various factors which may influence the driving behavior. Completed under the Supervision of Prof. Dr. Arne Jonsson and Dr. Rego Granlund, LiU. This was a funded project by Autoliv Research, Saab and Volvo Sweden.</p> |

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| | <p><u>Bachelors Research Project</u></p> <p>Location Determination of Mobile Nodes in a Wireless Network using Microsoft .NET Platform.</p> <p>Implementation Details: Implemented using C Sharp, Visual Basic and SQL Server. It basically captures all the wireless clients in a wireless network and determines its location. To verify it I have deployed it in a university to determine location of a mobile node using calibrated data. It also checks for the location using triangulation.</p> |
| <p>Small Development Projects</p> | <ul style="list-style-type: none"> • Developed evaluation framework for Large Scale Vehicular Networks in OMNET++ (a discrete event based network simulator) at K.U. Leuven, Belgium. • Designed and Developed Brain Air Database Management System in Database Technology Course at Linköping University (LiU) Sweden. • Analyzed Biometric Identification System in Computer Security Course at LiU Sweden. • Implemented Virtual Whiteboard using Java. • Developed the Game of Checkers using C/C++ (Non AI). • Developed the Single Player Game of Checkers using VC++ (with AI). • Multithreaded File Sharing / Transfer Software implemented using Java. • Implemented Scheduling Algorithm's using C/C++. • Implemented Multilevel Feedback Queuing model in XINU. • Designed & Developed Independent path generation through Cyclomatic Complexity Algorithm from an adjacency matrix using VC++. |
| <p>Language Skills</p> | <ul style="list-style-type: none"> ▪ English Fluency in speaking, reading and writing. ▪ Swedish Completed level 1 from LiU Sweden. ▪ Dutch Professional Fluency Level C1 acquired. ▪ Urdu & Punjabi Fluency in speaking, reading and writing. |