CURRICULUM VITA

- **Name:** Bashir Salah
  Academic Rank: Assistant Professor (Full-time)
  Nationality: German
  Date of Birth: 03-02-1980
  Marital Status: Married with three sons
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- **Education:**
  - B.Sc. Mechanical Engineering / automotive Engineering, Palestine Polytechnic University, Palestine, 2003
  - M.Sc. Production and logistics, University of Duisburg-Essen, Germany, 2008
  - Ph.D. Industrial and Manufacturing systems, Dissertation Title "*The implementation and analysis of a tendon-based stewart-gough-platform (SGP) for an automated storage and retrieval system for mini-load*" University of Duisburg-Essen, Germany, 2013

- **Academic Experience**
  - 2008-2013 Teaching & research assistant in Transport and logistics Department, University Duisburg Essen, Germany. Supervision for Bachelor and Master Thesis in the field of Production and Logistics, Full time
  - March 2014 – Present Assistant Professor of Industrial Engineering, King Saud University, Kingdom of Saudi Arabia – KSA, full time.

- **Teaching duties**
  - IE461 **Computer Integrated Manufacturing – Factory automation technologies**
    Robotics, Automated Storage and Retrieval Systems, Automated Handling and Transport Systems, Data identification, acquisition and processing, Communication and Networks, Industrial Information Systems, Flexible and Cellular Manufacturing.
  - IE450 **Industrial Facility Design**
    Facility design stages of Industrial factory Product, process and material handling analysis; Area allocation space analysis; Flow analysis; Plant layout and plan; Computerized facility layout and allocations, operation research.
  - IE 469 **Manufacturing Systems**
    Definition and classification of manufacturing systems; Manufacturing automation fundamentals; Manufacturing strategies (lean manufacturing, agile manufacturing and Application of KBS in manufacturing) ; performance of manufacturing system; Modeling of manufacturing systems; High volume manufacturing systems design and analysis; Flexible manufacturing performance analysis; automated inspection analyses .
  - IE301 **Product Design and innovation**
    Introduction to manage innovation; Idea generation: Product specification and quality; Standardization of product; Product structure and components; Implementing prototype metrologies; Manufacturing product prototyping project
  - GE 404 **Engineering project Management**
    Techniques and application of managing projects with emphasis on Project management organizational structures, teams, planning,

scheduling, pricing and estimating, cost controls, trade-offs, risk management, contracts, procurement, quality, and other related topics.

- **Areas of Research Interests**

  - Logistics & Supply Chain Management
  - Sustainable development supply chain management
  - Warehousing and Inventory Management
  - Computerized and Automation Manufacturing Systems
  - Simulation of Manufacturing Systems: Analysis and Design
  - cellular manufacturing systems- Group Technology
  - Industrial Application and Expert systems
  - Plant Layout, Material Handling & Factory Layout

- **Non-Academic Experience**

  - 2003-2005 Mechanical Engineer at Alherbawie Company and manager of the maintenance Department (in charge of a team of 22 persons), full time.
  - 2014-Present Responsible for 1st table tennis team coaching and team development program in King Saud University.
  - 2015-2016 Engineering Enrichment Summer program in Engineering Design Principles during the period of July 26 to August 13, 2016- king Saud university-Engineering College- Innovation Center

- **Certifications or Professional Registrations**

  - Advanced Professional Training "Mechatronics Engineering" Upon The invitation of the Government of the Federal Republic of Germany, 2005-2006
  - Participation on " introduction to SAP ERP ", held by University of Duisburg Essen, Germany, 2008
  - Participation on " Better usage of own Potentials ", held by Inwent GmbH, Germany, 2006
  - Participation on " Project Management Professional (PMP) ", held by King Saud University, Saudi Arabia, (35 Hours), 2017

- **Funded projects** **Framework for Sustainable Recovery of Energy Intensive Products**
  Role: Principal Investigator, National Plan for Science and Technology (NPST ref. 15-ENE4953-02), estimated budget: 2,000,000 SAR, preliminary acceptance, not yet started

- **Honors and awards**
  - Second Place proceeding of the IEEE, International Conference on Automation and Logistics, China, August 2011.
  - DAAD Scholarship for doctoral students 2010-2013.
  - First Place proceeding of the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017.

- **Service Activities (within and outside of the institution)**
  - Coordinator of Department Senior Graduation Project Committee
  - Member of Department Accreditation Board for Engineering and Technology(ABET) Committee
  - Member of Department Accreditation Committee
  - Member of Department Quality Management System

- **International Journal**

  - **Salah, Bashir**, Alkahtani, Mohammed, & Ziout, Aiman. (2017). Initial Assessment on Feasibility of Remanufacturing Practice: Case of Air Conditioners. International Journal of System Modeling and Simulation (ISSN Online: 2518-0959), 2(2), 1. http://doi.org/10.24178/ijsms.2017.2.2.01
  - **Bashir Salah**; Janeh, Omar; Noche, Bernd; Bruckmann, Tobias; Darmoul, Saber; Design and simulation based validation of the control architecture of a stacker crane based on an

innovative wire-driven robot, Robotics and Computer-Integrated Manufacturing, V44, Pages 117-128 , Elsivier, 2017

- **Refereed Conferences from the Last Five Years**

  - **Bashir Salah**; Mohammed Alkahtani; Aiman Ziout, "Initial assessment on feasibility of remanufacturing practice: case of air conditioners" 9th International Conference on Science, Technology, Engineering and Management, Dubai, UAE, 2017.
  - **Bashir Salah**; Mohammed Alkahtani; Aiman Ziout, "Using FMEA Analysis for Assessing Air Conditioners Remanufacturing Processes" Proceedings of the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017
  - Saqib Anwar, Fawaz M. Abdullah, **Bashir Salah**, Shafiq Ahmad, Abdulrahman M. Al-Ahmari, "An Overview of Electron Beam Melting research with Bibliometric Indicators" Proceedings of the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017
  - Oday Abdulla, Josef Schlattmann; Maher Majeed; **Bashir Salah**," Analytical Simulation of Frictional Heat Generated in the Friction Clutches Using MATLAB GUI" 9th International conference on tribology, Turkey, September, 2017.
  - Aiman Ziout; Ahmed Azab; N. Biswas; **Bashir Salah**; Mohammed Alkahtani, "Environmental performance of air conditioner remanufacturing" Second International Conference on Energy and Indoor Environment for Hot Climates, February 2017, Doha, Qatar.
  - **Bashir Salah**, Omar Janeh, Tobias Bruckmann, Bernd Noche, "Improving the Performance of a New Storage and Retrieval Machine Based on a Parallel Manipulator Using FMEA Analysis" INCOM, Ottawa 2015
  - **Bashir Salah**, Mohammad Fawad Afzal Sheikh, Bernd Noche, (2012). Designing Logistics Warehouse to improve the overall Performance for the existing Warehouse Management Systems (WMS) using SGP-AS/RS. Applied Mathematical Optimization and Modelling, APMOD 2012 Extended Abstracts, DS&OR Lab, University of Paderborn, Germany 2012
  - Bruckmann, T., Lalo, W., Nguyen, K., & **Salah, B.** Development of a Storage Retrieval Machine for High Racks Using a Wire Robot. In Proceedings of the ASME, 2012.
  - Muawia Ramadan, **Bashir Salah**, Bernd Noche, (2012). Innovative Estimating Travel Time Model for Dual-Command cycle Time of Stewart-Gough Platform in Automated Storage/Retrieval Systems. Proceedings of the ASME 2012 International Design Engineering Technical Conferences (IDETC) & Computers and Information in Engineering Conference 2012, Chicago, IL, USA.
  - Mohammad Sheikh, **Bashir Salah**, Bernd Noche, Implementation of SGP-AS/RS to Improvise Warehouse Management Systems' Performance in Optimal Logistic Warehouse. The eighth International Conference on Intelligent Manufacturing & Logistics Systems Thailand (2012).
  - **Bashir Salah**, Mohammed Wasiullah, Bernd Noche, Design, Optimization and Analysis of Stewart-Gough Platform based Automated Storage / Retrieval System. Proceeding of the IEEE, International Conference on Automation and Logistics, China, August 2011.
  - **Bashir Salah**, Muawia Ramadan, Bernd Noche,. Travel Time Analysis of Stewart-Gough Platform in Automated Storage and Retrieval System" Proceeding of the IEEE, International Conference on Automation and Logistics, China, August 2011.

- **Publications (in German)**

  - **Bashir Salah**, Marc Strehle, Bernd Noche, "Development of a concept for warehouse management with optimization approaches at the level of a new stacker Carne" (Entwicklung eines Konzepts zum Lagermanagement mit Optimierungsansätzen auf Ebene eines neuen Regalbediengerätes), logistics journal 2012.

- **Bashir Salah**, Khoa Nguyen, Bernd Noche, Tobias Bruckmann und Wildan Lalo, "Development of an algorithm for controlling a storage and retrieval unit and subsequent implementation in simulation software and application on a storage model" logistics practice handbook 2012 (Entwicklung eines Algorithmus zur Steuerung eines Regalbediengeräts mit anschließender Implementierung in Simulationssoftware und Anwendung auf ein Lagermodell); Praxishandbuch Logistik ; März 2012.
- **Bashir Salah**, Marc Strehle, Bernd Noche, "Development of a concept for warehouse management with optimization approaches at the level of a new stacker Carne" (Entwicklung eines Konzepts zum Lagermanagement mit Optimierungsansätzen auf Ebene eines neuen Regalbediengerätes) 8. Technical Symposium of the Scientific Society of logistic (Fachkolloquium der Wissenschaftlichen Gesellschaft für Technische Logistik (WGTL) e. V.; Magdeburg, Germany. September 2012.

- **Professional Consultation**

  - The Vice Rectorate for Educational and Academic Affair, King Saud University 2015:
    The main work was developing the cooperative training programs at the university level.