

## DR. HUSAM ARMAN

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### **BRIEF PORTFOLIO**

Husam Arman is an Assistant Professor at An-Najah National University, Palestine. He teaches Operations Management subjects for MA and undergraduate (e.g. Supply Chain Management, Quality Management, Strategic Management, Operations Research and other related subjects). He works as a part time consultant and has trained in the areas of strategic and operations management, technology management, quality management and self development. Before that, he worked as a Lecturer at Nottingham Trent University in the UK and worked as a Research Fellow at the Department of Mechanical, Materials and Manufacturing Engineering, University of Nottingham, UK. During this period, he worked on projects with international firms such as Rolls-Royce and UMECO to develop methodologies to optimize technology investments strategies. He also facilitated international workshops in the UK for prestigious organizations such as BAE Systems, Airbus, Rolls-Royce, NACAM and the UK Ministry of Defence. Prior that, Dr. Arman worked in the Palestinian industry for several companies in designing and maintaining quality management systems (ISO 9001) and in the area of production management.

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### **EDUCATION**

**PhD - Operations Management and Manufacturing Engineering**, University of Nottingham, UK, Sep 2004 – July 2008

- To develop a methodology to enable organisations to monitor and assess technological developments associated with their products, components, materials, processes and other areas of concern (Case study enterprise: Rolls-Royce, UK).

**MSc. Operations Management and Manufacturing Systems**, University of Nottingham, UK, 2003 –2004

**BSc. Industrial Engineering**, An-Najah National University, Palestine, 1997 – 2002

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### **PROFESSIONAL REGISTRATION**

- **Engineers Association:** Jerusalem Center, Palestine
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### **PROFESSIONAL EXPERIENCE**

#### **Sample of recent projects/tasks**

- Participated with an EFQM assessment team at An-Najah National University, Palestine, 2011
- Developed a business plan for prospective telecom distribution company, Palestine, 2011
- Lead the training for quality in healthcare project for non profit organizations in Palestine, Palestine, 2010
- BSc. Program assessment for the ministry of higher education, Palestine, 2009
- Lead a research project to develop technology investments strategies for Rolls-Royce, Derby, UK, 2008
- Lead a research project to develop a technology roadmap for UMECO, Hearnor, UK, 2008
- Facilitated international workshop in manufacturing sustainability, Nottingham, UK, 2008
- Facilitated UK national workshop in next generation of aerospace technologies, Nottingham, UK, 2008
- Lead a project of series of technology forecasting and assessment workshops at Rolls-Royce, Derby, UK, 2007

**Head of Industrial Engineering Department, An- Najah National University, Palestine, August 2010 – September 2011**

- Managing all department activities; such as: Annual course plan, Annual budget plan, Annual Development plan, Evaluation of department's staff performance, Evaluation of new applicants.

**Chairman of Engineering Management Master Program, An- Najah National University, Palestine, January 2010 – Present**

- Managing all program activities; such as: annual course plan, students enrolment management, mentoring students, coordinating comprehensive exams and all the administrative of the program

**Assistant Professor, An-Najah National University, Palestine, August 2009 – Present**

- Teaching various courses for undergraduate and postgraduate such as Strategic Management, Technology Management, Quality Management, Operations research, Management Information System, Product Design and Facilities Planning and Design.
- Supervision: undergraduate and postgraduate students in areas of Operations research, Technology Management, Quality Management, Product Design and Lean manufacturing.

**Academic Assistant, Centre of Excellence for Learning and Teaching, An-Najah National University, Palestine, August 2011 – Present**

- Delivering training workshops for new and current academic staff in innovative teaching methods and learner-centred approach.
- Provide general support for the various centre activities

**Lecturer, Nottingham Trent University, UK, April – June 2009**

- Planning, teaching and assessment of various teaching activities including lectures, seminars and labs for the course Applied Technology.

**Research Fellow and Group Leader, Responsive Manufacturing Group, University of Nottingham, UK, April 2008 – August 2009**

- Develop a technology planning process aimed at aligning enterprise R&D activities to the business environment through identifying, selecting, prioritising and developing technologies to satisfy market and product needs.
- Research methodology execution by facilitating sessions and workshops at partners sites (e.g. Rolls-Royce)
- Supporting and managing range of research projects to achieve high quality research.

**Researcher, Responsive Manufacturing Group, University of Nottingham, UK, Oct. 2007 – March 2008**

- Researching into technology watch methodologies to support strategic technology alignment roadmapping
- Planning and supporting technology roadmapping workshops for the UK government sponsored by the National Advisory Committee on Aerospace Manufacture (NACAM).

**Operations Manager, Victoria College Nottingham, UK, July 2007 – September 2007**

- Worked closely with the principal and the owner in the establishment of Victoria Nottingham College and all the related daily activities.

**Technology Research Engineer - Industrial placement at Rolls-Royce Plc – Derby, UK, May – June 2006**

- Conducting an evaluation for the technology forecasting activities at Rolls-Royce
- Capturing some of the current fixturing technologies used by Rolls-Royce
- Developing a prototype of knowledge-base structure for fixturing and a model for evaluating fixturing technologies
- Mapping the areas of future interest for fixturing using patents and publication analysis

**Production Manager - National Carton Industry, Nablus, Palestine, June – September 2003**

- Planning the production schedule within budgetary limitations and time constraints
- Analyzing the plant's personnel and capital resources to select the best way of meeting the production quota
- Coordination of production activities with those of other departments (e.g. marketing, purchasing)
- Ensuring quality control and monitoring product standards

## **Quality Management Representative - Nassar Investment Company, Bethlehem, Palestine, August 2002 – March 2003**

- Documentation and follow-up on system implementation in accordance with ISO 9000 QMS
- Inspecting samples of finished goods and recording defects
- Conducting internal auditing and monitoring control of inspection, measuring and testing equipment
- Reporting to the top management

## **Industrial Engineer - ALTIBI Industrial and Trading Company, Nablus, Palestine, May – August 2000**

- Developing and maintaining Standard Operating Procedures and evaluating the existing operations management systems of the company
- Assisting the production engineer in many of his regular duties.
- Developing a computerised system for calculating and monitoring the manufacturing processes

## **ADDITIONAL CAREER EXPERIENCE - PART TIME**

- **Tutor**, supervised MSc student and worked as a tutor to help students to gain basic IT skills, University of Nottingham, UK, 2005-2008
- **Arabic Teacher**, teaching Arabic as an additional language , Boston-UK, July 2007 to November 2008
- **Administrative Supervisor**, private school, UK, 2004 – 2006

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## **GRADUATE STUDENTS SUPERVISION**

- Integrated Manufacturing System Design for food production facilities in Palestine, M.Sc. thesis in Engineering Management, Abdallah Dweekat, defended January 2011.
- Evaluating the Supply Chain Management System of Palestinian companies, M.Sc. thesis in Engineering Management, Ahmed Abdullah, defended April 2011.

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## **SOCIAL AND ORGANIZATIONAL SKILLS**

- I was elected National Union Students (NUS) representative for University of Nottingham, 2005.
- Social event organiser for up to 200 people, University of Nottingham, 2004 -2005
- I have worked as a leader in a team of exam invigilators
- Volunteer as an executive member in the local community centre for two years, 2007 to 2009
- Volunteer football coach for a primary school and for the local community centre, Sept. 2006 – July 2007

## **COMPUTER SKILLS**

- MS Office (including MS Project 2000 & Visio 2003 )
- Statistical software (e.g. Minitab, SPSS)
- Graphics and Web design (Dreamweaver, Photoshop, Flash, 3D Studio Max, Corel Draw)
- Programming and database languages (Oracle developer & SQL, C, FORTRAN, VB.NET)
- Engineering software (AutoCAD 2D &3D, Arena, ProModel, ProEngineer, Working Model, LINDO, QC programs, Reliability, Decision Pro, GSM and others)

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## **TRAINING**

- Entrepreneurship and Technology, Intel Program via EFE, Palestine (4 days)
- Excellence in Teaching, Amideast, Palestine (3 days)
- European Foundation for Quality Management (EFQM), An-Najah National University (3 days)
- Intensive Learning and Teaching Programme (ILTP), University of Nottingham (4 days)
- Leadership, University of Nottingham (3 days)
- Invention Machine, University of Cambridge (2 days)

- Entrepreneurship, University of Nottingham, UK (1 day)
- Effective Researcher, University of Nottingham, UK (2 days)
- Exploiting scientific and technological innovations, University of Nottingham (2 days)
- 12th Annual EPSRC Research Methodology Workshop for Manufacturing and Technology Management, University of Cambridge (2 days)
- Strategic Planning, Loughborough University (4 days)
- Managerial and financial restructuring for Palestinian firms, FMI (3 days)

## **AWARDS**

- EPSRC full scholarship award, PhD 2004-2007
- Hani Qaddumi Scholarship Foundation full scholarship award, MSc. 2003-2004
- Second ranked when graduated among 140 students in the Industrial Engineering department at An-Najah National University

## **PUBLICATIONS**

### **REFEREED JOURNALS:**

- Arman, H, Gindy, N, Kabli, M and Cavin, S. 2011 "Integrated technology roadmapping tool to aid the decision-making of R&D investments", International Journal of innovation and Technology Management, Pending.
- Arman, H, Foden, J. 2010 "Combining methods in the technology intelligence process: application in an aerospace manufacturing firm", R&R Management, vol. 40, No. 2, 181 - 194.
- Arman, H., Hodgson, A. and Gindy, N.N.Z., 2010. An Ontology-Based Knowledge Management System to Support Technology Intelligence. International Journal of Industrial and Systems Engineering, 2010, Vol., 5 No. 2, 377-389
- Arman, H., Hodgson, A. and Gindy, N.N.Z., 2009 "Technologies watch exercise: foresight approach enhanced with scientific publications and patents analysis", International Journal of Technology Intelligence and Planning, vol. 5, No. 3, 305-321.
- Hodgson, A, Arman, H. and Gindy, N.N.Z., 2008. "An intelligent technology watch function for the high technology enterprise", International Journal of Industrial and Systems Engineering, Vol. 3, No. 1, 38-52.
- Tibi, N., Arman, H. (2007), "A linear programming model to optimize the Decision-Making to manage cogeneration system", Clean Technologies and Environmental Policy, Vol. 9, No 3.

### **REFEREED CONFERENCES:**

- Dwikat, A and Arman, H. 2011 "Integrated integrated manufacturing system design for food industry in Palestine", International Graduate Conference on Science, Humanities and Engineering, Nablus, Palestine, 4-5 May, 2011.
- Farr, R. and Arman, H. (2010) "A Framework to Support Multiple Perspectives in Eco-efficiency Decisions", in Conference on Responsive Manufacturing, Ningbo, China, 11-13 January 2010.
- Al-Habaibeh, A., Su, D. and Arman, H. (2009) "An Innovative Approach for Research-Informed Product Design Teaching using Wave energy Generation Case Study", in The International Ocean Energy Symposium, China, September 2009.
- Gindy, N. N. Z., Arman, H. and Cavin S., (2009) "Linking R&D investment strategies to business needs - Strategic Technology Alignment Roadmapping (STAR)", in Portland International Conference on Management of Engineering and Technology (PICMET), Portland, USA, 2 – 6 Aug, 2009
- Arman, H. Kabli, M, and Gindy, N. N. Z., (2008) "Integer Linear Programming model to optimise the decision-making in R&D investments", in EurMOT, Nice, 17- 19 Sep, 2008.
- Foden, J, Berends, H., Arman, H., (2008) "An integrated solution to Technology Management: technology Identification and Monitoring" in IAMOT, Dubai, 6 – 10 April, 2008.
- Arman, H., Hodgson, A., & Gindy, N. N. Z. (2007), "An Ontology-based Knowledge Management System to support Technology Intelligence", in Proceedings of the International Conference on Responsive Manufacturing, Nottingham, 17 – 19, 2007.

- Arman, H., Hodgson, A. and Gindy, N.N.Z. (2006), "Threat and opportunity analysis in technological development", Portland International Conference on Management of Engineering and Technology (PICMET), Istanbul, pp. 9-17, 8 – 13 July, 2006.
  - Arman, H., Hodgson, A. and Gindy, N.N.Z. (2005), "A proactive technology watch function", Proceedings of the International Conference on Responsive Manufacturing, Guangzhou, pp. 435-42, 12-14 September, 2005.
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