



ALİ BAŞTAŞ MEng PhD CQP DipQ

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EDUCATION AND QUALIFICATIONS

PhD	Doctor of Philosophy in Sustainable Operations, College of Engineering & Technology, Jul. 2019, Uni. of Derby – UK. Viva examined by Prof. Garza-Reyes & Prof. Sameh Saad .
MEng (Hons)	Master of Engineering in Mechanical Engineering with Manufacturing & Management. Upper 2:1, Jul. 2014, Uni. of Bath – UK.
CQP	Chartered Quality Professional – Feb. 2018, Chartered Quality Institute.
DipQ	Level 5 Diploma in Quality Management – Dec. 2017, Chartered Quality Institute.
Lead Auditor	ISO 9001 Quality Management Systems, External Lead Auditor – Jul. 2015, BSI.
Lean 6σ	Lean Six Sigma Green Belt – Feb. 2018, Industry Forum.

PUBLICATIONS AND CONFERENCE CONTRIBUTIONS

- Bastas A and Garza-Reyes J A (2022). Impact of the COVID-19 Pandemic on Manufacturing Operations and Supply Chain Resilience: Effects and Response Strategies, Journal of Manufacturing Technology Management. <https://doi.org/10.1108/JMTM-09-2021-0357>.
- Rizvi S, Bastas A, and Liyanage K (2022). Sustainability assessment of electricity generation technologies: a transition pathway for Pakistan, International Journal of Sustainable Energy. doi.org/10.1080/14786451.2022.2039141.
- Bastas A and Liyanage K (2021). Assessing the Enablers and Barriers to Quality and Supply Chain Management Based Approach to Sustainable Operations in the Manufacturing Context, 18th International Conference in Manufacturing Research, ICMR 2021.
- Bastas A (2021). Sustainable Manufacturing Technologies: A Systematic Review of Latest Trends and Themes, Special Issue of Sustainable Manufacturing Processes and Machine Tool Technology, Sustainability, 13, 4271. doi.org/10.3390/su13084271.
- Bastas A (2020). Comparing the probing systems of coordinate measurement machine: scanning probe versus touch-trigger probe, Measurement, Elsevier, 156, 107604. doi.org/10.1016/j.measurement.2020.107604.
- Bastas A and Liyanage K (2019). Setting a framework for organisational sustainable development, Sustainable Production and Consumption, Elsevier, 20, 207-229. doi.org/10.1016/j.spc.2019.06.005.
- Bastas A and Liyanage K (2019). Integrated quality and supply chain management business diagnostics for organisational sustainability improvement, Sustainable Production and Consumption, Elsevier, 17, 11-30. doi.org/10.1016/j.spc.2018.09.001.
- Bastas A and Liyanage K (2018). ISO9001 and Supply Chain Integration Principles Based Sustainable Development: A Delphi Study, Special Issue of Sustainable Development and Quality Management, Sustainability, MDPI, 10, 4569. doi.org/10.3390/su10124569.
- Bastas A and Liyanage K (2018). Sustainable Supply Chain Quality Management: A Systematic Review. Journal of Cleaner Production, Elsevier, 181, 726–744. doi.org/10.1016/j.jclepro.2018.01.110.
- Bastas A and Liyanage K (2017), Improving supply chains through quality management and sustainability integration, International Conference on Environmental Sciences & Educational Studies (ICES), North Cyprus.

RESEARCH INTERESTS

- Industry 4.0 and Sustainable Manufacturing
- Supply Chain Resilience
- Sustainable Management, Engineering & Energy Systems
- Facility Design and Factories of the Future
- Quality Engineering and Management

COURSES TAUGHT

- MECH202 - Manufacturing Technologies (including coordination of the Machine Shop Activities)
- MECH208 / ASE262 - Dynamics
- MECH433 - Engineering Metrology and Quality Control
- MECH471 - Production Plant Design
- MECH458 - Graduation Design Project (Course Coordinator, Sep 2020 – Jul 2021)
- IENG263 - Materials and Manufacturing Processes

- IENG332 - Production Planning I
- IENG385 - Statistical Applications for Engineering
- IENG490 - Introduction to Manufacturing and Service Systems Design
- IENG492 - Manufacturing and Service Systems Design Project

INTERNATIONAL ACADEMIC JOURNAL POSITIONS

Guest Editor for the special issue titled: '[The Impact of Industry 4.0 on Sustainability and the Circular Economy](#)' at the Sustainability journal (MDPI).

Academic reviewer for the following high impact, international academic journals:

- Journal of Cleaner Production and Measurement (Elsevier), International Journal of Production Research (Taylor and Francis), Processes, Applied Sciences and Sustainability (MDPI).

CAREER SUMMARY

- Jul 2021-Present** ***Eastern Mediterranean University, Famagusta TRNC***
Assistant Professor (Full time Faculty Member – Dept. of Industrial Engineering)
- Currently in charge of the coordination and delivery of the undergraduate courses of Statistical Applications in Engineering, Production Planning I, and Materials and Manufacturing Processes.
 - Elected as the chair of the Industrial Relations and Placements committee for the Dept. of Industrial Engineering.
 - Leading and supervising PhD research activities on the current research areas for academy and practice including Sustainable Manufacturing, Industry 4.0, and Circular Economy.
- Sep 2019-Jul 2021** ***Middle East Technical University – Northern Cyprus Campus TRNC***
Assistant Professor (Full time Faculty Member – Mechanical Engineering Program)
- Passionately and effectively delivered the undergraduate courses outlined in the courses taught section, achieving the best overall student feedback evaluation score among the MECH faculty for Fall 19-20 semester.
 - Contributed to METU NCC's impact on the industry and on the community, building the bridge between the Cyprus Turkish Chamber of Industry, organising and advising industrial graduation design projects that contributed to local manufacturing firms including ICY, CEE Ltd., ASM Recycling Ltd. and Tek-Med (Ref. <https://ncc.metu.edu.tr/tr/announcement/mech-mezuniyet-projesi>). These achievements were recognised, being assigned the coordinator role for the graduation design project module between Sep.20 and Jul.21.
 - Took active part in the MECH program's ABET and PEC accreditation processes.
 - Led master's research activities as part of the Sustainable Energy and Environment Systems Master's program, completing two master's research juries as internal examiner and producing research contributions.
- Mar 2015–Jun 2018** ***JCB, Staffordshire UK***
Supplier Development Engineer
- Managed supplier quality for JCB Backhoe Loaders (from Jul 15 to Sep 16), Transmissions (from March 16 to Jun 18) and Tele Handlers (Jan 17 to Jun 18) Business Units, delivering divisional supplier quality improvement (PPM) targets.
 - Conducted over 80 New Supplier Management System Audits and Commodity Audits including Paint, Welding, Casting and Cleanliness Process Audits in the JCB UK, Europe and Asia supply base.
 - Developed and Introduced JCB Global Supplier Welding Process Audit which is currently in effect in key JCB Global Regions of UK & Europe, India and China.
 - Led key NPI / APQP projects for Backhoe Loaders division, mitigating/actioning risks at the nominated suppliers.
 - Established risk-based audit scheduling/prioritisation systems for New Supplier and Supplier Welding Commodity process audits for JCB UK & Europe supply base.
 - Overseen key supplier process changes / relocations including auditing, review and risk analysis of the proposed processes for derisking the key changes at the JCB UK & Europe supply base.
 - Led Quality Improvement Projects / Supplier Clinics on strategic suppliers through 8D Problem Solving, Pareto Analysis, Glidepath and Firewall techniques, delivering supplier quality improvements.
- Jul 2014–Mar 2015** ***JCB, Staffordshire UK***
Manufacturing Engineer - Graduate Scheme
- Established the production planning model for JCB Hydraulic Business Unit that facilitated weekly shift/labour decision making through automated, MS Excel based capacity analysis.

- Implemented visual inspection standards for JCB Tele Handlers Assembly Inspection Stations.

Jun 2013–Sep 2013 **Morgan AM&T, Istanbul - Turkey**
Maintenance & Planning Engineer - Summer Internship

- Implemented TPM programme at manufacturing operations through breakdown data capturing and analysis for proactive autonomous and periodic maintenance activity management.

Jul 2011–Jul 2012 **Parker Hannifin Ltd, Somerset - UK**
Design & Continuous Improvement Engineer - Industrial Placement

- Solved a major production quality problem that reduced operating costs, assembly and rework time associated with the problem by 30%.
- Developed a new test rig concept that solved a serious safety issue related to the hydraulic testing of the valves and improved testing cycle times.
- Designed & implemented a new barcode visualization system on assembly cells, for highly reduced changeover times and enhanced assembly document (SOP / drawings) issue level control.
- Led a heat treatment supplier improvement project including reduction of parts complexity and development of parts flexibility that delivered leaner operation of the heat treatment process and reduction of lead times.

PROFESSIONAL TRAINING AND IT COMPETENCY

IT Software	MS Office (Word, Excel, PowerPoint, Project), MATLAB, Simio and SPSS proficiency.
CAD/CAM	Competent skill level with CAD/CAM software of Solid Edge and SolidWorks.
Managing Safely	IOSH Managing Safely - May 2016, NSEGA.
Risk Assessment	Level 2 Award in Risk Assessment - Sep 2014, British Safety Council.
Other	8D Problem Solving, P/DFMEA, Team Building, CSWIP Weld Inspection.

AWARDS AND PRIZES

Nov 2017 **Journal of Cleaner Production, Elsevier**
Outstanding Contribution in Reviewing Award

- Been awarded the outstanding contribution in reviewing award, in recognition of the critical contributions made to the academic publication quality during the peer-review process of this transdisciplinary journal.

July 2014 **Institution of Engineering and Technology (IET)**
2014 IET Best Student Graduating in Manufacturing Engineering Prize

- Been honoured with the IET Prize as per the nomination of University of Bath, having demonstrated outstanding academic performance and influential research contribution to industry during the undergraduate and masters studies.

May 2013 **University of Bath**
Academic Representation Achievement Award – AY 2012/13

- Recognised for influential elected representation of 3rd year and final year engineering students on academic and institutional affairs at Staff Student Liaison Committee and Academic Council meetings.

PERSONAL DETAILS

Driving Licence	Full/Clean.
Languages	English and Turkish (Fluent), German and French (Basic).
Nationality	British and Cypriot.
Military Service	TRNC Military Service obligation completed in August 2018.
Personal Interests	Fitness training and playing the guitar.