

Brief CV

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|-----------------------------------|---|----------------------------|----------|---|
| Name | Muataz Hazza F. Al Hazza | 中文名 | |  |
| Gender | Male | Title (Pro./Dr.) | Dr | |
| Position (President...) | Assistant professor | Country | Malaysia | |
| University/ Department | International Islamic University Malaysia/ Faculty of Engineering/Manufacturing and materials department | | | |
| Personal Website | https://www.linkedin.com/in/muataz-hazza-f-al-hazza-6314ab137/ | | | |
| Research Area | Engineering Project management, Quality management systems, Decision making methods, , Flexible manufacturing systems, Value and Cost Analysis, Modeling, simulation and optimization in High Speed machining processes | | | |

Brief introduction of your research experience:

My research has a strong interdisciplinary focus in combining and integrating theory with practices and experimental work in order to optimize the outputs of the research. My previous research was in improving and optimizing a special machining process that merge three advanced machining processes together: high speed machining; hard machining and dry machining. This process called high speed hard machining (HSHM). I was focusing on optimizing the process from different side: soft side or in other words the management side such as energy cost and tooling cost was my target in this process. I managed to investigate and develop mathematical models based on empirical and experimental studies to predict and estimate the total cost of process. These models can be guidelines for other researchers to identify the best levels of different factors. Then with the new revolution of industry 4.0, my new research view is to merge with engineering management practices and the current trend. My future plan is to focus on understanding and elaborating on Risk management and its effect on better manufacturing strategies. Certain objectives in my future plan be met for this research. These objectives are as follows:

- 1- To identify the attributes, factors and parameters in manufacturing practices that play role in the manufacturing process and strategy.
- 2- To study the interrelationship between AM and LM, AM and GM, LM and GM, and types of flexibility in each practice.
- 3- To investigate the possible risks that may occur when manufacturing practices are implemented.
- 4- To develop and validate a framework that integrates lean manufacturing, agile manufacturing, green manufacturing, risk management and manufacturing flexibility

*******All the columns need to be filled in.**