

REFERENCES

- [1] P. Bharti, M. Khan, and H. Singh, "Six sigma approach for quality management in plastic injection molding process: A case study," *Int. J. App. Eng. Res.*, vol. 6, pp. 303-314, 2011.
- [2] P. Keun, and J. Ho Ahn, "Design of experiment considering two-way interactions and its application to injection molding processes with numerical analysis," *J. Mat. Process. Techno.*, vol. 146, pp. 221-227, 2004.
- [3] S. Kamaruddin, Z. Khan, and S. H. Foong, "Application of Taguchi method in the optimization of injection molding parameters for manufacturing products from plastic blend," *IACSIT Int. J. Eng. Techno.*, vol. 2, pp. 574-580, 2010.
- [4] H. Radhwan, et al. "An optimization of plastic injection molding parameters using Taguchi optimization method," *Asian. Trans. Eng.*, vol. 2, pp. 75-80, 2012.
- [5] K. Jain, J. Kumar, and J. Kumawat, "Plastic injection molding with Taguchi approach - A Review," *Int. J Sci Res.*, vol. 2, pp. 147-149, 2013.
- [6] W. Lo, K. Tsai, and C. Hsieh, "Six Sigma approach to improve surface precision of optical lenses in the injection-molding process," *Int. J. Adv. Manu. Techno.*, vol. 41, pp. 885-896, 2009.
- [7] M. Kamal, and S. Kenig, "The injection molding of thermoplastics part I: Theoretical model." *Polym. Eng. Sci.*, vol. 14, pp. 294-301, 1972.
- [8] H. Chiang, C. Hieber, and K. Wang, "A unified simulation of the filling and postfilling stages in injection molding. Part I: Formulation," *Polym. Eng. Sci.*, vol. 31, pp. 116-124, 1991.
- [9] F. Schmidt, J. Agassant, and M. Bellet, "Experimental study and numerical simulation of the injection stretch/blow molding process," *Polym. Eng. Sci.*, vol. 38, pp. 1399-1412, 1998.
- [10] X-T. Pham, F. Thibault, and L-T. Lim, "Modeling and simulation of stretch blow molding of polyethylene terephthalate," *Polym. Eng. Sci.*, vol. 44, pp. 1460-1472, 2004.
- [11] W. Callister, *Materials Science and Engineering: An Introduction*. 7th ed., John Wiley, NY, 2006.
- [12] I. Rubin, *Injection Molding: In EPSE 2nd ed.*, Vol. 8, pp. 102-138. Available at: <http://product-engineering-design.blogspot.com>, October 2014.
- [13] Autodesk help. Available at <http://help.autodesk.com/view/MFAA/2015/ENU/>, August 2014.

BIOGRAPHY

Safwan A. Altarazi is a dynamic experienced professor, trainer, researcher, and consultant with a strong record of achievements in the fields of quality management and supply chain management. Have more than ten years of experience in academia-industry bridging projects. Rigid problem solving capability across different fields in very systematic manner. Have raised about \$250,000 as research funds during the last six years (more than \$100,000 as principal researcher). Have participated in two EU-Tempus projects for developing master programs in various engineering fields. Served in various administrative positions including head of industrial engineering department-Germany Jordanian University, head of maintenance engineering and management department-Germany Jordanian University, elected member of mechanical engineering assembly board-Jordanian Engineers Association, chair of scientific committee-Seventh Jordanian International Mechanical Engineering Conference (JIMEC2010), and chair of the first International Conference on Industrial, Systems and Manufacturing Engineering (ISME'14.)

Gazal Al Soudani Jordanian born in August 1991. She graduated from Al Mashrek International School in Amman with the highest GPA of her class. She later received her Bachelor's degree in Industrial Engineering and Management Systems from the German Jordanian University in September 2014 on a scholarship of academic excellence. As a part of her undergraduate program, Gazal studied one semester in Fachhochschule Koeln in Germany, after which she did a 6-month internship working at Unify GmbH in Munich - Germany. Upon graduation, with her colleagues she conducted the project "A Taguchi-Continuous Simulation Approach to the Injection Molding Blowing Process Quality Improvement" that is being presented."

Zina O. Karadsheh was student council president for two years in a row, graduated from school with honors and is soon to be a graduate from the German Jordanian University, where she was also a co-finder of a club called "Lab-On-Wheels" that aims to help bring hands-on experiments to children studying in rural areas in Amman, Jordan. Moreover, she did an internship in the development of Prototype Vans for one year in one of the worlds most recognized companies, Daimler AG.