



Name: Eng. Shiva Sadeghi

Rank: Senior Instructor - Mechanical Engineering

Personal Information

Nationality:	Canadian
AU Joining Date:	21 Aug 2016
E-Mail Address:	S.sadeghi@ack.edu.kw

Professional Information

Education:	Qualification: Masters Major: Aerospace engineering College/University: University of Toronto Year: 2013/2014
	Qualification: Bachelor Major: Aerospace engineering College/University: Ryerson Polytechnic University Year: 2006/2011
Specialization:	Flight Sciences and Control Systems Aerospace Manufacturing and Processing
Current Academic Position:	Senior Instructor - Mechanical Engineering
Current Professional Positions:	NA
Previous Administrative Position Held:	NA
Previous Academic Positions Held:	Instructor
Fellowships And Honors:	NA

Teaching Experience:	Bombardier Aerospace Inc. Downsview, Ontario Trained SAP software and Project Management Australian College of Kuwait. Mishref, Kuwait Instructor of Mechanical Engineering
Industrial And Technical Experience:	Bombardier Aerospace Inc. Downsview, Ontario Project Engineering Analyst, Global 7000/8000 HP/LP Ducting - Driving excellent IPDT Management and WP visibility. - Building a solid roadmap to the key milestones of the balanced scorecard. - Providing weekly/daily visibility packages that highlighting key issues for clear and timely escalation and demonstrating the problem solving approach. - Harmonizing governance processes between the teams located at multiple site - Developed good working relationships with various departments within BA and with all suppliers Bombardier Aerospace Inc. Downsview, Ontario Methods Analyst, Global 5000/6000, Aerostructure - Supported electrical, structural and system related activities for rapid resolution to production line issues. - Investigated issues and coordinated with engineering, suppliers by creating RFCs as required. - Created and revised Assembly Manuals to document the optimum assembly sequence of a particular component. - Communicated the intent to change the Manufacturing Product Structure with Change Management, through Action Sheet and Condition of Supply. - Initiated the First Article Inspection procedure of components to ensure that the Methods' work instructions are in accordance to the parts' Engineering definition. - Managed and maintained the preparation of sequenced list of tasks and assembly work packages by clearly identifying critical path and displaying predecessor-successor relationships using the Detailed Work Schedule. Noranco Inc. Vaughan, Ontario Program Manager, Messier-Dowty Inc. Ajax, Ontario - Multi-managed Messier-Dowty Landing Gear kits and discrete orders for Bombardier challenger and global aircrafts following customer or internal requirements.

	- Integrated forecasts, master schedule items, sales orders and firm-planned orders for MRP processing and breaking out kits and assembly schedules into component requirements. - Responsible for facilitating all correspondences between company and the client. Chaired weekly conference calls and program reviews based on provided updated line of balance and matrices. - Performed internal and external non-conformance investigations for company products; Ensured corrective actions were carried out for in-service and manufacturing issues, using the appropriate methods. Cyclone Manufacturing Inc., Mississauga, Ontario Program Manager, Bombardier Saint-Laurent and Mexico Plant - Administered production, assembly and product modifications by overseeing stock, work in process, scrapping and reworking utilizing Exact JobBoss. - Analyzed new designs of major modifications. Prepared, planned and maintained new templates, establishing the information required to manufacture assemblies, subassemblies and detail parts based on Request for Changes, Engineering Orders and Condition of Supplies. - Examined the RNCs accompanied by the quality team to ensure compliance and client requirements. Pursued delivery & raised rework orders as required. Prepared capacity forecasts to project current and future production resources based on capital equipment and manpower.
Research Interest:	Flight Dynamics, Engineering Materials, Education
Research Grants:	NA
Research and Publications including Journal and Books:	S. Sadeghi, " Aerodynamics loads variations of wings with novel heating of top surface: Bioinspiration and experimental study", Experimental Thermal and Fluid Sciene 109 (2019) 109884 S. Sadeghi, "Development of Flight Guidance Simulation System for CRJ200 using Vector Field Path Following concept", Flight Dynamics Master's Design Project, May 2014 S. Sadeghi, "Mars lander carrying a CanSat ", Space System Design Project, April 2011 S. Sadeghi, "Static and dynamic stability, maneuverability, and trimmability and designed flight control surfaces of a flying wing commercial aircraft", Aircraft Design Project, Velox Aerospace (BWB), April 2010

Paper Presentations at Professional Conferences:	V. Pellerito , M. Hassanalian , A. Sedaghat , F. Sabri , L. Borvayeh , S. Sadeghi, “ Performance Analysis of a Bioinspired Albatross Airfoil with Heated Top Wing Surface: Experimental Study”, AIAA Propulsion and Energy 2019 Forum, 19-22 August 2019, Indianapolis, IN
College Service including committee Membership:	CT, Auditing and QM Committee
National Service:	NA
School Committees:	NA