

Grzegorz Piotr Musial

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WEB [LinkedIn Profile](#)

Professional Engineering Experience

2006 – 2006

AVIO Polska in Bielsko-Biala, Poland. Appointed to entry level job as special processes engineer. Responsible for introduction of new special processes to aircraft engine nozzle and blade production – porting brazing, welding, furnace etc. to Polish Avio facility as a mirror to the Italian counterpart. Worked on Pratt-Whitney PW308, General Electric GE90, T700, GENx, and CFM International CFM56 hardware.

2006 – 2007

Rosco Polska in Cracow, Poland. Appointed as specialist in technical department. Responsible for technical support and quality control in steel structures projects. Additionally started project management in new technology introduction department.

2007 –2008

Warsaw Institute of Aviation, Engineering Design Center (EDC) in Warsaw, Poland. Appointed as Design Engineer in Airfoils Center of Excellence - Fan and Compressor. Responsible for introduction and manufacturing support of GE's GENx-1B and GENx-2B engine parts (variable stator vanes and booster blades), redesign for producibility and cost reduction, disposition of non-conforming parts, and vendor substantiation engineering. In 2008 certified as Lean Six Sigma Green Belt.

2008 – 2011

General Electric Company Polska, Engineering Design Center (EDC) in Warsaw, Poland. Promoted to Lead Engineer in Product Engineering Center - High Pressure Compressor. Went through New Product Introduction cycle being responsible for design and project management of GE's Leap-X engine fixed stator vanes. Development lead of a groundbreaking bespoke analysis software suite for complete analysis of compressor airfoil aeromechanical properties. Successfully completed Detailed Design Review for Leap-X Core 2 demonstrator engine.

Awarded Early Career award for 2009 during Engineering Recognition Day. Nominated to Art Adamson Award for outstanding performance and lasting contribution for Leap-X/eCore High Pressure Compressor Airfoil Mechanical Design by the GE Aviation's Vice President, Engineering - Jeanne Rosario.

In 2010 promoted to Team Leader in Aerostructures and Composites department. Responsible for Airbus A350 XWB Stress Team activities namely the design and analysis of Outer Fixed Trailing Edge Secondary Structure, Leg Fairing Door, and Hinged Fairing Door composite wing panels. Development of a bespoke composite structures analysis software suite for complete analysis of large number of stress load cases. Successfully completed Detailed Design Review.

Mid 2010 awarded Engineering Process Excellence award for Leap-X Core 2 High Pressure Compressor design.

In 2011 promoted to Staff Engineer on technical path while retaining Team Leader title. Moved to Product Engineering Center - High Pressure Compressor module. Responsible for another New Product Introduction activity - Led design and project management of Leap-X / Passport 20 Production engine compressor module parts (bolted joints, shrouds, variable stator vanes). Acted as airfoil design expert and Material Review Board approver.

2012 - 2015

Director of aviation engineering consultancy - Advanced Aerospace Ltd (www.advanced-aerospace.co.uk).

Contract for Rolls-Royce Plc in Derby, United Kingdom. Design and validation testing of composite and metallic High and Intermediate Pressure Turbine parts for Rolls-Royce technology demonstrator - Environmentally Friendly Engine (blades, seal segments, nozzle guide vanes). Research and development of new Turbine technologies and adaptation of existing technologies to suit development engine requirements. Significant Oxide/Oxide Ceramic Matrix Composites experience. Development of validation testing software and test procedures for a bespoke mechatronic test rig.

Contract for Cascade Aerospace Ltd in Farnborough, United Kingdom. Managing programs in an aviation engineering consultancy - Cascade Aerospace Ltd (www.cascade-aerospace.co.uk). Contracted to set up a program management environment in a growing aerospace company (headcount - approx. 20 people). Managing stress analysis and design contracts for clients such as General Electric, Boeing and Airbus. Additional tasks - analysis checking and stress report creation. Project highlight - creation of Integrated Finite Element Model and Interface Load Reports of Airbus A350XWB Inner Fixed Trailing Edge. Development of company-wide Microsoft Project integrated project portfolio.

2015 – 2017

Boeing Commercial Airplanes in Everett, WA, USA. Integration of test and certification aspects of GE9X Engine Development Program. Management of test hardware and test requirements. Coordination of engine vendor, commodity and supplier teams. Development lead of a suite of requirements and hardware tracking software tools.

2017 – PRESENT

Quest Global in Charlotte, NC, USA. Computer Aided Design and Analysis specialist in the area of Large Gas Turbines. Support of Siemens Energy Charlotte turbine engineering activities. Design, Analysis and Definition of turbine casings, stator vanes, shrouds and associated small parts and tooling.