

Myles Sadler

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Personal Profile

I am a forward thinking, goal driven and determined aerospace engineering graduate. I have strong analytical, problem solving and interpersonal skills. I am not one to shy away from a challenge. I am constantly looking to build on my strengths both personally and professionally. I am looking for a challenging role within a company at the forefront of their engineering sector.

Education

Sheffield Hallam University

(September 2012 – June 2017)

MEng Aerospace Engineering SW- (IMechE and IET accredited): Obtained 1st Class

Relevant Modules:

Applied Fatigue and Fracture Mechanics, Astronautics and Space Propulsion, Lean Operations and Six Sigma, Advanced Vibration and Acoustics, Advanced Aerospace Computational Methods, Project and Quality Management, Propulsion Systems and Aerodynamics, Structural and Component Integrity and Finite Element Analysis, Aerospace Materials.

MEng Group Project: Management of a team of students designing, building and commissioning a new wind tunnel and rolling road for the university. I took on this role as it ties in closely with my interest in the Formula Student competition.

Relevant Employment History

Development FRACAS Engineer, Rolls-Royce Plc (via Belcan)

(October 2017 – Present)

- I manage all of the issues that arise, on transmission hardware, during the testing and development of the world's most efficient large aero engine, the Trent XWB. The transmission hardware consists of bearing chambers, shafts and gearboxes.
- I liaise with supplier Safran and the joint venture company Aero Gearbox International to resolve all issues on the accessory drive train.
- I organise and lead small multidisciplinary project teams of specialists such as stress, design and thermofluids engineers to quickly and effectively establish the root cause of the test issues. Ensuring any issues are fixed before they manifest in-service; this is improve the engine's maturity and longevity.
- I examine engine hardware prior to engine testing and compare this to their engineering drawings, design standards and specifications, and engine overhaul manuals. If the part no longer fits its purpose an investigation as to why is started.
- I am my team's interface with the failure investigation team ensuring any hardware that needs to be inspected by the laboratory teams is sent across with the relevant data.
- I was involved in a massive process improvement exercise with regards to the capacity issues in the laboratories. This was done by collaborating with other stakeholders from the business such as operations and the laboratory teams as well as the development teams across other projects. I was tasked with analysing current issues from my department's point of view before developing and implementing the improvements across the project.
- I regularly present my findings of each investigation to a committee of senior engineers including the chief engineer this is to ensure they are satisfied with the conclusions that I have made.

Design/Product Definition Engineer Intern, Rolls-Royce Plc**(June 2014-August 2015)**

- I completed 12 weeks of first-class training using Siemens NX and Teamcenter. In this time I developed my modelling and drafting abilities as well as my knowledge of Geometric Dimensioning and Tolerancing (GD&T) for both ASME and ISO standards.
- I designed, created and developed complex 3D models and engineering drawings to ensure that the design met the criteria for its intended use. I liaised with materials engineers, stress engineers and systems engineers to ensure all parts were fit for purpose.
- I worked to strict and short deadlines which helped me develop adept organisational and time management skills.
- I attended business wide meetings which helped me improve my commercial awareness and business acumen. More specifically within design and manufacturing.
- At times I was put under tremendous amounts of pressure where the work I was given was high priority with the potential to delay the project if not completed swiftly and effectively. Working efficiently was the only way to ensure this.

IT Skills and Software Packages

Microsoft Office, Siemens NX and Teamcentre, Solidworks, Matlab, SAP, ABAQUS and ANSYS Fluent.

Key Skills

Problem Solving & Analytical skills – As seen from my strong academic record I am very thorough and meticulous when attacking a problem. My competent numerical skills enables me able to analyse complex data.

Project Management & Leadership – I have demonstrated a high quality of leadership and project management whilst working as a Development FRACAS Engineer ensuring that I plan effectively so all investigation ran smoothly. I always take time to teach my peers on concepts they struggle with and this puts me in good stead if I have to take lead of a project.

Teamwork & Work Ethic – I relish the opportunity to work as part of a team as it helps me grow both personally and professionally. Working for the Formula Student team has taught me this. I worked as part of a small project team during my time as a Design/Product Definition Engineer which was nominated for an award for outstanding contribution to the company.

Communication & Presentational skills – I have had to communicate in many different ways in my career so far. Working out which form of communication is best suited to each person and scenario is something I have come to be skilled at and this is key in communicating effectively. Having to present to senior engineers has helped me become more confident and vastly improved my presentation skills.

Planning & Organisational skills – My organisational skills are one of my strengths and this is why I was given the role of secretary in my MEng group project. This consists of having to organise meetings, write agendas, send out meeting minutes and ensure that all actions are tracked.

Interests

- Muay Thai – I have been training Muay Thai for over a year now. It helps me keep fit and has helped me become a more disciplined person in general.
- I am a keen cricketer and enjoy both participating and watching all sports.
- Reading- whether it's technical papers or fictional novels; I have a particular interest in books on space and physics.
- Guitar- a more artistic hobby that I have recently started.

References – available on request