

RAW Aviation Consulting Limited

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RAW Aviation Consulting Limited

About

I have 25 years experience in aircraft and engine design, performance and operation at the UK Aerospace Technology Institute, Rolls-Royce, QinetiQ (DERA) and Cranfield University.

I have been an independent consultant since May 2017 with easyJet as an initial client. My intent is to provide customers with short term, intermittent or part time access to my specific capabilities outlined in this document. This will provide cost effective solutions with, if required, enduring service access.

I possess a deep practical understanding of the highly integrated aircraft/engine sizing and design process and I am fully capable in the use of many industry standard IT tools.

My IT skills have been used throughout my career to develop software solutions to successfully deliver very substantial **Capability, Productivity and Quality** improvements.



More information on

Linkedin: [Richard Wilson](#)

Facebook: [@RAWAvCon](#)

Website: www.RAWaviationconsulting.com

email: mail@RAWaviationconsulting.com

RAW Aviation Consulting Limited

Principle Achievements

Currently creating a guarantee compliance administration system for the easyJet A320neo and A321neo fleet.

ATI: Establishment of a world class aircraft design capability.

Rolls-Royce: Aircraft performance lead securing selection of Trent 1000 on the Boeing 787 and Trent 7000 on the A330neo (technical and commercial activities).

Critical input >\$1billion sales campaigns.

Key member of 'Advance' and 'Ultrafan' concept definition IPT.

Aircraft performance lead: Trent 900 & XWB development.

Worked closely with PACE GmbH to create the Pacelab APD specification & provided expert advice during its development.

2 year secondment to RR Seattle embedded with the Boeing Product Development team.

Very extensive IT skills: MSOffice, VBA, SQL, C#, Fortran.



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Aircraft Competitive Assessments

A fair assessment of the relative merits of various aircraft types requires a large number of assumptions in addition to the basic aircraft attributes. These include cabin layouts, airline business models, fuel policy, etc. Public domain data and judgement are used as a basis for this analysis



Planned Customer Offerings:

General Assessment for numerous markets with various assumption profiles – subscription basis with regular updates

Customer specific assessments – Contact us to discuss needs

Status:

Initial operational capability Sept/Oct 2017.

Contact: mail@RAWaviationconsulting.com

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Aircraft Technical Purchasing Support

Airframe and engine OEMs claims during procurement activities require a deep technical understanding of the equipment and airline operational requirements and practises to reach a clear understanding of the relative merits of competing products.



Planned Customer Offerings:

Management of airframe and engine OEM marketing data to create a clear view on the relative merits of competing products.

Guarantee definitions: aircraft and engine.

Network planning studies.

Status: Available.

Experience: RR sales campaign support

Previous Analysis Tools Experience:

Airbus PEP, Pacelab Mission, in-house

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Aircraft & Engine Guarantee Administration

Guarantee compliance and calculation of any remedy, where due, requires highly detailed analysis and knowledge of aircraft and engine performance. This often requires the merging of data from across the operator functions as well as the OEMs.

Planned Customer Offerings:

Compliance analysis - delivery guarantees.

Monitoring systems constructed for time dependent guarantees (i.e. events per calendar or operational period).

Ongoing administration service for time dependent guarantees (e.g. 1 day/month).



Experience:

easyJet A320neo airframe and engine guarantee administration

Status:

Available

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Aircraft Development Scenarios



Aircraft design is a complex compromise of numerous requirements, market pressures and technology adoption. An understanding of these will allow a reasonable assessment of the expected aircraft attributes that can be delivered by the aerospace industry.

Planned Customer Offerings:

In-house competitive analysis will include in-development aircraft types as well as some less conventional architectures.

Specific Assessments – Contact *RAW Aviation Consulting Ltd* to discuss needs.

Experience: ATI Whole Aircraft capability , Pacelab APD development, RR 'Advance' and 'Ultrafan' IPT member

Status: Initial operational capability
Sept/Oct 2017.

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Operational Analysis

Value extraction from the ever increasing amount of operational and technical data being generated by aircraft, engines and operators' in house systems is a low cost way to increase revenues or reduce costs.

This data processing must be organised and automated to maximise value realisation.

Planned Customer Offerings:

Initial Assessment – initial review and assessment of data available & potential benefits.

Bespoke monitoring systems & dashboards created. Data administration if required.

Experience:

RR 3 shaft fleet operational monitoring

Status:

Available

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Higher Education

RAW Aviation Consulting Ltd can provide an industry and R&T perspective on aircraft design, performance and operation at an architectural level. This addresses the fundamental sizing decisions that are required prior to more detailed MDO (CFD and FE) modelling activities.



Planned Customer Offerings:

External Examiner.

Group Design Reviews.

Aircraft Architecture Lecture/Course:

Requirements and limitations and how these have driven existing aircraft designs and will shape future configurations.

Experience: External examiner: Cranfield
Uni part/time Aircraft Engineering
ATI University Research Projects

Status:

Available (Course available 2018)

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Helicopters

In house capability is being developed to define helicopter major sizing and performance characteristics. This can be used for aircraft assessment for fleet planning studies.

Planned Customer Offerings:
Operational and Mission analysis of Helicopter performance.

Status:
Initial operational capability: 2018.

Contact: mail@RAWaviationconsulting.com

