

Daniel Breslan BEng MSc CEng MIET

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Skills

- Self-starting experienced and capable electrical engineer with great communication, software and problem-solving skills
- MATLAB, Objective-C, with experience in PHP, Javascript, HTML, VBA, Arduino, Bash
- Microsoft Word, Microsoft Excel, Windows, macOS, iOS, iPadOS

Experience

Ricardo Rail

Senior Consultant: September 2019 — Present

Consultant: January 2018 — September 2019

- Developed several analysis tools in MATLAB to automate labour intensive tasks, which has enabled Ricardo to perform work more reliably, faster and has improved our commercial offerings to clients in these fields.
- MATLAB subject matter expert for the EMC team performing analysis and visualisation of complex datasets.
- Led and delivered 6 electrical testing projects covering standardised and novel investigative testing.
- Completed compliance assessments against standards for several on track machines.
- Completed safety management projects for several infrastructure changes.
- Developed successful commercial relationships with two new clients and delivered multiple projects for each.

BAE Systems Marine Ltd – Submarines

Project Leader: July 2014 — December 2017

Senior Engineer: February 2012 — July 2014

Engineer: June 2010 — February 2012

- Established a power system analysis capability within the business from scratch.
 - Defined the team structure, roles and power system analysis philosophy.
 - Established team operation to support the rigorous design process based on MATLAB and SimPowerSystems.
- Led the power system analysis function for Dreadnought-class submarine including energy storage modelling, fault level, transient and stability analysis, power system protection, load budget analysis, and operating philosophy.
- Managed, mentored and developed a team of 6 young engineers.
- Created the Electrical Load Budget Tool and established a process driven way of working to; define all the electrical consumers, size the generation and distribution equipment and energy storage requirements.
- Produced the concept design, including drawings and documentation, for one of the submarine's major distribution systems.

Education

MSc in Power Electronics, Machines and Drives [Distinction], 2011-2015

The University of Manchester

Dissertation: Control of a Vertical Axis Wind Turbine Driven Induction Generator.

BEng (Hons) in Electrical and Electronic Engineering [2:2], 2005-2008

The University of Nottingham

Dissertation: Design of a Central Heating Controlling using an FPGA