



DAVID POLHILL, BELLVEDI - CURRICULUM VITAE

With over 17 years' experience in the railway industry, David has made a significant contribution in the fields of passenger demand forecasting, yield management and operational planning. As technical lead on the Network Modelling Framework project David liaised with other rail organisations in order to achieve successful integration of models predicting performance, safety, infrastructure and TOC cost outcomes. More recently as technical lead on the Moira2 project, David worked closely with a team of developers to build the Moira2 application giving him deep insight into the inner workings of the model as well as an understanding of its strengths and weaknesses.

Key skills

- ➔ Innovative and creative thinker – able to find a solution where others may flounder
- ➔ Excellent listening skills – never lets go until a customer's requirements are properly understood
- ➔ Depth and breadth in software development having lead successful teams of developers using a wide variety of technologies
- ➔ Delivered timetable and operational planning solutions for franchise bidding, long-term planning and day-to-day operation as part of the CMS, NMF and MOIRA2 consultancy and development teams
- ➔ Passenger demand forecasting expert due to extensive knowledge of the PLATO, CMS Passengers and then MOIRA2 systems, applied during development, calibration and franchise bidding
- ➔ Data and software development professional, with extensive experience of all parts of the development lifecycle from business analysis, through delivery, testing and support
- ➔ MSc in Operational Research from LSE and BSc in Environmental Science from Lancaster University

Summary of Career History

Joined British Rail in 1995 as part of the Management Consultancy division. Example achievements are:

- ➔ Implemented the "Star Model" for TOC caused delays as part of the Schedule 8 performance regimes.
- ➔ Formed part of the bid team and then lead the software side of the Network Modelling Framework project, successfully liaising with other rail bodies to bring together a disparate collection of models into a coherent product.
- ➔ Developed the MERIT railway simulation model, which forecasts delays and lateness caused by stochastically sampled infrastructure and train based incidents.
- ➔ Lead the development of the Railway Timetabling System for TfL, creating some rich data visualisation and manipulation tools alongside complex algorithms for timetable generation and detection and resolution of planning conflicts.
- ➔ Part of the successful bid team for the MOIRA2 project and instrumental in delivering a solution to the rail industry capable of handling the far broader modelling requirements of MOIRA2, whilst delivering results within a reasonable turnaround
- ➔ As Technical Architect on the Enhanced ARS project (a development to the IECC signalling control product), created and communicated the system architecture to customers, the board and wider team and then saw the project through to successful delivery