# David Rickmann

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I am a highly experienced data scientist with over 15 years of experience. I've worked with UK and International clients both in government and private sector on projects from developing software and tools to leading the modelling for successful multi-billion-pound infrastructure bids.

I have a strong, diverse experience set having worked with Timetable Modelling, Signals Modelling, Rail Performance modelling, ATO and rail commercial modelling.

From a data science perspective, I'm fluent in SQL, R, Python, Tableau, Microsoft BI, and many other technologies and have led training sessions to share that expertise with others.

## Work Experience

### 19/02/20 - Present – D2 Infrastructure
*Principal Data Specialist*

As part of D2 I worked as principal data lead to the Capacity Planning and Digital Technology functions. In this role I worked on large scale national and international transport projects, leading the Capacity Planning data science offering.

### 19/08/19 – 19/02/20 – Steer
*Principal Consultant – Data Science*

Within Steer I worked to introduce data science principles to their consulting offering. I provided data science expertise to the Economic Development, Future Mobility and Rail teams developing systems to rapidly assimilate process and analyse large scale data sets for use in performance modelling, business case development and systems advisory projects.

A large part of time was to provide a training, advisory and advocacy role upskilling graduate and junior staff in data science tools and principles.

### 04/02/13 – 16/08/19 - CH2M / Jacobs
*Senior Consultant – Management Information Systems*

The Management Information Systems Team at CH2M/Jacobs covered a diverse skillset, offering data science solutions to all areas of the larger business. Some of those areas included:

*Rail Commercial Modelling*
- Rail franchising financial modelling projects for franchise bidders and as technical advisor to the Department of Transport.
- Capturing, controlling, improving, reporting and analysing complex datasets for highly competitive rail franchise bids with very high commercial value.
- Business case development for emerging projects.

*Data Warehousing*
- Support of SQL and ETL process software as well as automated build and test on several large scale data warehouse systems.

*Bespoke Modelling and Data Science Solutions*
- Developing software and models for road, rail and air transport customers covering financial, reliability and maintenance.
- Developing software solutions and maintaining existing software.
- Working with Python, JavaScript, VB and many others.
- Developing models and analytical tools using R, Excel, Tableau, and SQL.

*Smart Environments and Sensors*
- Remote sensors, device networks and smart environment solutions.

Additional to my work in the MIS Team I also operated as the UK *Ethics Ambassador* helping CH2M staff to deal with ethical issues ranging from diversity and inclusion to corruption and money laundering.

**01/12/2008 – 01/02/13      Network Rail - Thameslink**
*Programme Engineer (System Modelling)*

As a programme engineer my work involved conducting detailed analysis to determine feasibility, reliability and cost effectiveness for a £5.5 billion rail scheme.

- Communicating modelling and analysis results across diverse engineering disciplines and business groups.
- Providing detailed technical and cost analysis for project stage gate review.
- Developing and improving the project management process and procedures.

**21/12/2005 – 01/06/07      ALSTOM Metrocare (Jubilee Line)**
*Data and Logistics Engineer*

- Tracking all aspects of Jubilee line trains and maintenance
- Providing data analysis internally and to the customer.

## Education

1999 – 2004   University of Plymouth
BEng (Hons) Robotics and Automated Systems
        with Business and Operations Management.

1991 – 1999  The John Mason School - Abingdon
3 A Levels    (Maths, Chemistry, Physics)

## Academic Papers and Books

*'Autonomous Vehicles' et al, 30-Second AI and Robotics*
A Collection of essays on Robotics and Artificial Intelligence.
Ed. L Miranda, Ivy Press, 2019

Systems Modelling: Making the Links
*Co-Author of paper presented at*
*Values and Norms in Modelling conference (Technische Universiteit Eindhoven)*