



### Profession

Auto Industry and Sustainable Transport Specialist

### Current Position

Associate

### Joined Arup

2006

### Qualifications

MSc Design Systems for Engineering (Warwick University, part-time)

BSc (Hons) Mechanical Engineering (Bath University)

Four Year Mechanical Engineering Design Office Apprenticeship (Rutherford Appleton Laboratory at AEA Harwell)

### Key Data

Robin Haycock is an Associate based in Arup's London office.

Robin has spent the last two years working on secondment to the UK government. He was in the Office for Low Emission Vehicles (OLEV) since its formation. This focused his activities towards realising government's vision of "placing the UK at the global forefront of ultra-low carbon vehicle development, demonstration, manufacture and use". Before OLEV, Robin was with Dept BIS working with the auto industry on future opportunities.

Robin started his career as an apprentice with AEA Harwell. He then graduated from Bath University and began work as an automotive engineer at Jaguar Cars. Robin then worked at specialist consultancies including Cosworth and AVL (Austria) where he finished his auto career as design and analysis manager for AVL in the UK. During his automotive career he also completed a part-time MSc at Warwick University.

Robin then moved from the automotive sector into energy consulting and transport planning roles within Arup. During this time he has worked with a diverse range of clients to establish economic routes for sustainable transport in both retrofit environments and new eco-cities.

### Relevant Experience

#### Office for Low Emission Vehicles (OLEV)

Robin helped to develop the policy documents and justification for the formation of this cross-Whitehall office. He then worked as the industrial lead within the team, while remaining involved in future strategy development as the group moved forward on the electrification of transport. With the complexity of issues involved in displacing liquid fossil fuel from transport, a great deal of time was spent building new relationships across sectors, developing common plans for electrification and building consensus as to how these plans can offer medium term business opportunities for UK industry.

### Department for Business Innovation and Skills (BIS)

Working within the Automotive Unit of BIS, Robin spent significant time with industry as the government representative on the New Automotive Innovation Growth Team (NAIGT). This included looking at the key drivers of change for the automotive industry over the next 25 years, and developing plans to decarbonise to meet the UK government's long term commitment to an 80% reduction in CO<sub>2</sub>. The roadmaps of technologies and vehicle propulsion solutions that have emerged from this NAIGT work have been developed into business plans and also worked into TSB support to new product development in the vehicle sector.

### Vehicle Design Group, Arup (2006–2008)

With a significant knowledge of how the auto industry works and what is possible in vehicle technology, Robin worked with clients on vehicle energy consumption trends and technologies. He has undertaken various tasks within Arup, but the majority focus around finding routes to the lowest energy consumption or tailpipe emissions of vehicles, for transport master plans or fleets of vehicles.

The balance between costs, technology, demographics, and energy reduction, as well as per person CO<sub>2</sub>/km, are a frequent and difficult set of conflicting criteria, which need to be analysed to enable an uptake of any transport solution, and Robin's work involves using future roadmaps for vehicle technology and a strong knowledge of what is possible to deliver solutions to clients within any given project time horizon.

### Prior to joining Arup:

- AVL UK Ltd, Design and Analysis Manager (1999–2005)
- Perkins Engines, Concept Design Leader (1995–1999)
- Cosworth Engineering, Team Leader (1992–1995)
- Land Rover Ltd, Senior Engineer (1988–1992)
- Jaguar Cars, Graduate Apprentice (1986–1988)
- Rutherford and Appleton Laboratories, Design Office Apprentice (1979–1983)