

Steve Bullock

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Education

- 2017 **PhD Dynamics and Control**, *University of Bristol*, UK.
Thesis: *Multi-Body Control for Automated Aerial Refuelling*
- 2006 **MEng (Hons) Aeronautical Engineering**, *University of Bristol*, UK, 2:1.
Dissertation: *Development of a Micro-Unmanned Aerial Vehicle*

Work

- 2010-date **Teaching Fellow**, *University of Bristol*, UK.
Teaching-focused academic pathway, alongside PhD research. Various responsibilities focused on improving teaching & Learning across Faculty of Engineering and wider University.
- Design and delivery of a range of first- and second-year units, trialling novel teaching approaches;
 - Improving student-facing resources through direct development, training and supporting colleagues, and sharing best practice;
 - Introduction of a digital Dynamic Lab Manual alongside physical and logistical restructuring of Engineering lab teaching (£400k+ multi-year project);
 - Introduction of Transition Maths programme for students from BTEC and Access routes;
 - Supporting school to university transition for first-year Engineers, including developing Study Skills programme promoting independent learning and resilience.
- 2009-2010 **Head of Science**, *King Solomon Academy*, London, UK.
Founded a new school with six other engaging and inspirational teachers in challenging area.
- Emphasis on developing enthusiastic learning culture and strong leadership team;
 - Set up Science department resources and programme;
 - Graded outstanding by Ofsted before end of first term.
- 2007-2009 **Head of Physics**, *Wembley High Technology College*, London, UK.
Trained and placed through intensive Teach First programme.
- Tripled KS5 Physics applications;
 - Implemented whole-school e-learning system;
 - Transformed rigour and ambition of KS4 BTEC Science programme.
- 2006-2007 **Science Teacher**, *Wembley High Technology College*, London, UK.
Trained through intensive Teach First programme, #3 *Times* top graduate employer.
- 2006-date **Educational Consultant**.
Wide range of Science- and Engineering-focused freelance projects, including:
- Print, web and film-based resource development and consultation for clients including Google, Land Rover Ben Ainslie Racing, BP, EDF, RNLI;
 - Preliminary and semi-final judge for Google Global Science Fair 2011-2016;
 - Seminars, workshops, presentations and one-to-one sessions on learning-to-learn, training, event planning, and subject-based learning.

Additional positions

- 2015-date **Widening Participation Officer**, *University of Bristol*, UK.
Responsible for recruitment, admission and progression of WP students across Faculty of Engineering.
- Introduced Transition Maths programme to support students from Access and BTEC entry routes;
 - Developed Gateway to Engineering foundation programme;
 - Introduced partnerships with UK-wide colleges;
 - Allocation and monitoring of £20k+ budget for WP and Outreach.
- 2015-date **Senate Representative**, *University of Bristol*, UK.
100-member governing body of the University, responsible for teaching and learning, examinations and research and enterprise.
- Approval of new programmes, major changes, budgets;
 - Consultation and development of new £330m expansion strategy.
- 2011-date **TEL Advocate**, *University of Bristol*, UK.
Developing and showcasing best practice in Technology-Enhanced Learning across University.
- 2015-date **Warden**, *University of Bristol*, UK.
Semi-collegiate Halls structure, part of team of 11 Wardens.
- Established and led 22-person pastoral support team across two brand-new private-partnership halls of 760 undergraduate and postgraduate residents;
 - Participated in Divisional Review ensuring value-for-money for £2 million pastoral budget;
 - Previously Senior Resident then Deputy Warden, wide range of pastoral experience.
- 2010-date **Committees and advisory groups**, *University of Bristol*, UK.
- Faculty of Engineering Equality and Diversity Committee;
 - Faculty of Engineering New Laboratory Group;
 - University Digital Workspace Advisory Group;
 - Best of Bristol Lectures Steering Group.
- 2013-2014 **Campaign Manager**, *Pacific Solo Row*.
Fund raising, logistics and charitable impact for 3-month, £100k solo ocean row.

Teaching

- University Dynamics and Control; Structures and Materials; Aerospace Vehicle Design and Systems Integration.
- A-level Physics; Mathematics.
- Key Stage 4 GCSE Science (single/double/triple); BTEC Science (level 2).
- Key Stage 3 Science.

Interests

- Technology Robotics; drones; physical/digital interfaces; human interaction.
- Innovation Entrepreneurship; startups; positive impact.
- Environment Social impact and responsibility; influence of technology.
- Well-being Deliberate practice; self-development; mindfulness.
- Creativity Music, singing, performing; digital/analog arts.
- Adventure Mountaineering; cycle touring; ocean rowing; expeditions and exploration.