

# David Finlay Wyatt

## Curriculum Vitae

*Date of birth:* 22<sup>nd</sup> July 1984

*Nationality:* British

*Home address:*  
12 Greville Park Road  
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### Previous employment

- Mission Systems division, EADS Astrium, Stevenage: contributed several sections to a report for the European Space Agency on biomimetics in space science during a 9 week paid summer placement, *June to August 2004*
- Robotics research group, University of New South Wales, Sydney: constructed a novel design of locomotion platform and supported the RoboCup Junior outreach programme for 14 weeks, *February to June 2003*
- Atkins Water, Epsom: worked on mathematical modelling projects related to water treatment for 13 weeks, *September to December 2002*
- University College, London: employed for 4 weeks as a research assistant to conduct a survey into patient safety and computers, *August 2001*

### Achievements and awards

- First class & 1<sup>st</sup> overall out of 300 students, Cambridge University Part 1A Engineering Tripos exams, *June 2004*
- Awarded a place on Royal Academy of Engineering WILD1 course, *March 2005*
- Gold medal (2<sup>nd</sup> overall), International Biology Olympiad, *July 2002*
- Gold medal (23<sup>rd</sup> overall), International Physics Olympiad, *July 2002*
- Top scholar, Winchester College entrance exam, *May 1997*
- Grade 8 Flute, distinction, *May 2001*

### Computing skills

<u>Operating systems:</u>	Windows, Apple OS X, Unix (HP/UX), Linux (Knoppix)
<u>Programming:</u>	C, C++, microcontroller assembly language, Matlab, (X)HTML
<u>Technical software:</u>	CAD (ProEngineer), schematic capture/PCB layout (Eagle)
<u>Office applications:</u>	Word, Excel, Powerpoint, Outlook, OpenOffice
<u>Desktop publishing:</u>	Quark XPress

### Career intentions

After my undergraduate degree I intend to undertake a PhD in robotics, after which I plan to pursue a career in engineering research in either academia or industry.

### Specialist areas

Robotics and mechatronic engineering: I am fascinated by the challenge of designing both the physical mechanisms of robots or other machines and the electronic and computational mechanisms to control them. I have built a variety of robots, including a hybrid wheeled/legged locomotion platform and an automated Lego Mindstorms assembly line that constructs Lego cars. At university I co-ordinated a six-person team that built a tabletop Autonomous Guided Vehicle to perform a specified task and I am currently the director of the Design Club's Icesub project: we are building a small remotely-operated submarine for the Scott Polar Research Institute to survey the undersides of ice floes and take readings to calibrate climate-change models.

Bioengineering: I am intrigued by the solutions to engineering problems found by the natural world, and am interested in how biomimetic principles can be used to produce efficient and effective designs. I have a strong background in biology and am a student member of the Institute of Biology.

## Education

2003 - present: Trinity Hall, Cambridge - Engineering Tripos  
2002 - 2003: Gap year: working and travelling in Australia, New Zealand, Singapore, Thailand and India  
1997 - 2002: Winchester College, Winchester, Hampshire  
1992 - 1997: Downsend School, Leatherhead, Surrey  
1991 - 1992: Duveneck Elementary School, Palo Alto, California, USA  
1989 - 1991: Barnett Wood Lane School, Ashted, Surrey

## Public exam results

A level	Physics	A	2001
	Chemistry	A	2001
	Biology	A	2001
	Maths	A	2001
	Further Maths	A	2002
Advanced	Chemistry AEA	Distinction	2002
	Chemistry STEP	S	2002
	Maths S level	Distinction	2001
	Critical Thinking AEA	Distinction	2001
AS level	French	A	2000
	Spanish	A	2002
GCSE	Maths	A*	1999
	Latin	A*	1999
	Classical Greek	A*	1999
	French	A*	1999
	English	A*	2000
	Art and Design	A	2000

## Other interests

**Media:** I have extensive experience of editing and desktop publishing through work as production manager of *Varsity* (a Cambridge University student newspaper) in 2004-2005 and editor of *The Wykehamist*, Winchester College's school magazine, in 2001-2002. I maintain a personal website at [www.davidwyatt.me.uk](http://www.davidwyatt.me.uk) and have designed websites for several others.

**Popularising science:** I have a wide-ranging interest in science and technology, and am keen to communicate it to others. I was president of Winchester College Science Society in 2001-2002; at Cambridge I have volunteered for science outreach projects with the organisations SeeK and CHaOS and helped to start up a new Cambridge-based popular science magazine, *BlueSci*.

**Languages:** I speak French and Spanish to a good conversational standard, and have studied German and Japanese at Cambridge Engineering Department's Language Unit.

**Natural history:** I have around 200 mineral and fossil specimens, many of which I have collected myself. I also have a collection of ferns, cacti and succulents.

**History of computation:** I have a collection of around 40 slide rules, mechanical calculators and pre-IBM home computers, most in working order.

**Theatre and music:** I enjoy acting and took part in several productions at Winchester College. I play the flute to Grade 8 standard, and have taken part in various ensembles.

## Referees

Dr Piers Clark, Managing Director  
Atkins Water, Woodcote Grove  
Ashley Road, Epsom  
Surrey KT18 5BW  
[piers.clark@atkinsglobal.com](mailto:piers.clark@atkinsglobal.com)

Dr David Moore, Director of Studies in Engineering  
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