



Design work in the field

My web CV at [www.tomdehavas.com](http://www.tomdehavas.com) is a far more useful resource for finding if I have the skills you may be looking for.

Tom de Havas BSc Hons Physics Born 1961

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[Brief - to create a flat screen display for on street use that is beautiful, functional and fits into the local architectural style, but I am not a product designer.](#)

## PROFILE

I am an engineer, programmer, designer and scientist with broad ranging interests from architecture and style to the system science of both engineered and natural systems. This has applications from, writing more effective specifications, to understanding organisations and their function and dysfunction.

## SKILLS

Safety and compliance engineering, Software development, Industrial Design, Quality management, Health & Safety, Business Cases, Project Management, Personnel, Law and Tendering.

Programming in VHDL, 6502, 68000, ARM Assembler , 'C', 'C++' and Java. Web design in HTML and CSS.

Teaching/Training, Public speaking, Research. and writing books (over 10,000 sold).

## EMPLOYERS

Safety and compliance engineering for Geku automation Ltd. Directing and many other roles for Nexus Alpha Ltd. Programming and graphics for BBC education financed by The Micro Education Programme and The Gatsby Foundation. Teaching for Inner London Education Authority. Writing books for Glentop Publishers Limited. Programming for New Media funded by Acorn Computers and Department of Education and Science. Other contracts.

## BUSINESS

Directing Nexus Alpha Ltd from the beginning to 25 employees and a turn over of £1.5 million over 11 years with my co-director Patrick McDougall. I sold my half of the company to him in June 2005.

Director Science Faction Ltd as yet an insignificant company.

## INTERESTS

The study of the common basis of engineered and natural systems, including natural organisms and the effectiveness of organisations they form. Research I hope to compile into a book, titled "Cybernetics: or organisation, hierarchy, cooperation and conflict, in natural and engineered systems". Other interests include architecture, product, fashion and jewellery design, and most frontier technologies and sciences.

## HOBBIES

Sailing, photography, carpentry, shoe and costume design, writing.

# INTERESTS AND REFEREES

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## INTERESTS

- Design** General interest in most applied art including architecture, product design, and fashion.
- Technology** I am interested in almost all frontier technology and science and always have been. At age five I dragged home a rusty TV chassis and learned the basic electronic components, at twelve I got my first one transistor home brew FM transmitter working more by luck than judgement. Had my first computer in 1978 a UK101 with a 6502 and 8K of RAM.
- System Science** Over the years of running a business I found myself more and more absorbed in the search for an understanding of organisations and their function and dysfunction, questions of optimising discipline and freedom and how individual objectives can be fulfilled at the same time as organisational objectives.
- Exploring the practical need to bring the maturity of the electronic engineering industry, with its clear specifications and well defined components, into the software industry where few people in the industry can define software engineering and most don't practice it.
- I believe that engineering, is the putting together systems out of components.
- From this definition it became clear that the field, of what might be considered engineering, ranged across software, electronic, mechanical, civil and other traditional engineering, through to many other natural systems such as plants and animals.
- I have become interested in system science in its broadest sense covering systems ranging from human engineered systems, through to natural systems such as plants, animals, human beings, organisations and even societies.

## REFEREES

- Julian Coleman** 07714 12531 - 97 Rochester Avinue, Rochester ME1 2DR - Former employer at BBC and former employee with Nexus Alpha Ltd.
- Dr Peter Holmes** 020 8205 4529 - 21 Colin Drive, London NW9 6ES Former employer and co-author.
- Dr Larry Landau** 020 8857 0737 - 27 Avondale Road, London SE9 4SN - Retired from Department of Mathematics, King's College University of London, former university lecturer at Bedford College University of London and friend many years later.