



Ashley J. Robinson

Education

- Oct. 2010 - **Master of Engineering**, *with First Class Honours*, in Electronic Engineering with Artificial Intelligence, University of Southampton.
Jun. 2014 Modules include Analogue Electronics, Computer Systems, Control Theory, Digital IC Design, Design and Test of Digital Systems, Electromagnetic Fields and Waves, Evolution of Complexity, Image Processing, Intelligent Algorithms, Machine Learning, Management, Semiconductor Devices, Signal Processing and Software Development
- Sept. 2008 - **A-Levels**, Alton College, Alton, Hampshire.
June 2010 Electronics (A*), Mathematics (A) and Physics (A). AS-Level Computing(A).
- Sept. 2003 - **GCSEs**, Amery Hill Secondary School, Alton, Hampshire.
June 2008 Art(D), Biology(A), Chemistry(A), Design and Technology(A*), English Language(B), English Literature(C), Geography(B), ICT(B), Mathematics(A*) and Physics(A)

Work Experience

- Sep. 2014 - **Cambridge Design Partnership LLP**, Church Road, Toft, Cambridge, CB23 2RF
Present Consultant Electronics Engineer.
A technology and product design consultancy. Working on many cross discipline projects but remaining focused on the application of electronics; typically in consumer products. Core skills applied include analogue circuit design, PCB design and digital hardware design with concurrent low level software development. Additional skills exercised range from basic mechanical engineering to high level software development.
- Jul. 2012 - **Cambridge Silicon Radio (CSR) PLC**, Churchill House, Cambridge Business Park, Cowley
Sep. 2013 Road, Cambridge, CB4 0WZ
Student Placement.
Working with the digital design team assisting with the development and verification of their Near Field Communications (NFC) technology. Side projects included verification of an LCD hardware driver and designing a serial to parallel converter for in-house test hardware. This was 20 weeks in total divided over two summers. I was awarded UKESF Scholar of the Year partly based upon my achievements at CSR.
- Jul. 2008 - **Sainsbury's plc**, Draymans Way, Alton GU34 1SS
Sep. 2010 Customer Service Assistant.
Assisting customers along with operating both traditional and self-serve checkouts.
- Jul. 2006 - **M.J.Robinson Garden Maintenance**, 6 Ferney Close, Chawton, Hampshire, GU34 1SQ,
Oct. 2013 Assistant to the head gardener.
Maintaining the grounds of homes and businesses, large and small, in the Alton, Hampshire area.

Additional Qualifications and Achievements

- Jun. 2014 **Captec Award for Entrepreneurial Industrial Innovation** *Excellence award approved by Professor Max Toti.*
- Feb. 2014 **EMECS-thon Winner** *Best "Internet of Things" Implementation at the University of Southampton.*
- Nov. 2013 **UKESF Scholar of the Year** *Presented at the National Microelectronics Institute gala dinner.*

Jan. 2012 - **UK Electronics Skills Foundation Scholar**
Jun. 2014
2009 - **Full clean UK Driving License**
Present

*UKESF is a collaboration between industry,
universities and the public sector.*

Skills

- PCB Design Design of electronic circuits using **Altium**, **Eagle** and **KiCad** schematic capture/layout tools and **SPICE** simulations. Analogue, digital, mixed signal, switch mode power supplies, high speed digital interfaces, low power and common frequency RF.
- FPGA Designed digital modules in **Verilog** and simulation using **ModelSim**, **Cadence** and **Icarus**.
- ASIC Design and simulation of custom libraries and integration for **VLSI** chip manufacture using **Magic**.
- Embedded Software Developed embedded software on Atmel, Microchip and STM32 microcontrollers. Mainly in the **C** programming language and often using **FreeRTOS**.
- Software Developed CLI and GUI applications using **C#** and **Python** and basic server side applications in **PHP**.
- Modeling and Simulation In depth modeling and simulation of custom electronic components and physical principals using **Matlab** and **SciPy**.
- Mechanical Basic CAD experience in **FreeCAD** and use of FDM/Polyjet 3D printing technology.
- Project Management Involved in proposal writing and planning for multi-discipline work packages. Electronics/software lead on several 2 to 4 team member projects.

Hobbies and Interests

- Film Avid film fan with a passion for science-fiction.
- Game/Rough Shooting Have been a member of a pheasant shooting syndicate in the past also pigeons, ground game and the odd clay. Actively involved in this outdoor pursuit during the summer and winter months.
- Hobbyist Electronics Audio equipment, radios and robots. Many projects using electronics and maths skills acquired from the age of 15 onward. Using microcontrollers, FPGAs and analogue circuits.
- Off-Roadng Land Rover owner in the past along with a couple of motocross bikes. Lots of green laning around Hampshire.
- Programming On both Windows and Linux environments. Assembler, C, C#, PHP, Python and Verilog/SystemVerilog. Constructed my own website which contains a growing list of software projects.
- Music Enthusiastic guitar player. Broad range of music taste.
- Travel I enjoy backpacking and camping. I have been on self organised camping trips across Scotland and Europe also many other places throughout England during my time in the Scouts. I've toured Canada by RV and train from Vancouver to Montréal with many detours.

Contact Details

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- Mobile 07557506617

References

- Mr Richard Cambridge Design Partnership, Church Road, Toft, Cambridge, CB23 2RF UK
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Tel: +44 (0) 1223 264428
- Mr Fash CSR, Churchill House, Cambridge Business Park, Cowley Road, Cambridge, CB4 0WZ UK
Nowshadi Email: Fash.Nowshadi@csr.com
- Dr Nick R Personal Tutor, University of Southampton, University Rd, Southampton, SO17 1BJ UK
Harris Email: nrh@ecs.soton.ac.uk

Media Presence

- CDP: Blogs www.cambridge-design.co.uk/news-and-articles/blog/flaming-hoverboards
www.cambridge-design.co.uk/news-and-articles/blog/exploding_batteries
www.cambridge-design.co.uk/news-and-articles/blog/meet-ashley-our-near-field-communications-expert
- ECS: Careers blog.soton.ac.uk/careershut/2014/12/15/hearing-from-our-graduates-ashley-robinson-at-cdp/
- EMECS-thon: youtu.be/0NC3W49Lj-A
Winner
- UKESF: www.ukesf.org/news/articles/2013-ukesf-scholar-of-year
Winner
- UKESF-ECS: www.ecs.soton.ac.uk/news/4376
Finalist

Version Control

- CV Date 9th August, 2016
Version 2.7