

## Andrew K.M. Miller

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PERSONAL DETAILS	Stoneleigh New Road North Nibley Dursley Gloucestershire, GL11 6DR	<i>E-mail:</i> <a href="mailto:info@akmiller.co.uk">info@akmiller.co.uk</a> <i>Nationality:</i> British
EDUCATION	Imperial College London  <i>MEng, Information Systems Engineering</i> Degree Class: 2.1  Bristol Grammar School  <i>A Levels</i> Two A's (Mathematics and Physics) Two B's (Further Mathematics and Computing)	<b>Sept 2007 - July 2011</b>  <b>Sept 2000 - Aug 2007</b>
WORK EXPERIENCE	Engineering Experience  <i>Systems Administrator/Engineer at Ocado Group plc</i> <b>Present</b>  Developing and implementing new tools and systems as well as automating older systems within the Networking and Unix (Netnix) Team to improve the IT infrastructure within Ocado  <i>Undergraduate Researcher at Imperial College London</i> 2-3 months working with PhDs in the Imperial College EEE Robotics Lab, starting a project on an autonomous remote control helicopter  Other Experience  <i>Part-Time Retail Assistant at Cotswold Outdoor Ltd.</i> <b>Aug 2010 - Present</b>  Involves selling customers various items that would be used in outdoor pursuits, such as clothing, boots and rucksacks and providing knowledge to help customers make the best choice of equipment.  <i>Tour Guide at Imperial College London</i> <b>June 2008 - June 2011</b>  Showing prospective students & their parents around campus throughout the year  <i>Park Worker at Cattle Country Adventure Park</i> <b>Aug 2007 - Sept 2008</b>  Supervising various areas of the park where children need supervision to use the equipment and dealing with any problems that customer's might have.  <i>Waiter at Nibley House Catering</i> <b>May 2003 - Aug 2007</b>  Catering for private function and wedding receptions  <i>Mentor for Digitall London</i> <b>Oct 2009 - Nov 2009</b>  Volunteered on a project to bridge the digital age gap between old and young by teaching weekly on a one-to-one basis	<b>September 2011 -</b>

ENGINEERING PROJECTS	Individual Projects
	<p>1<sup>st</sup> year project on parallel image processing using an RC100 FPGA board, developed hardware that created concurrent pointers on a live video stream.</p> <p>Developed a Pascal to ARM assembler compiler in C++ using Lex/YACC</p> <p>Continuously developing C++ code for an autonomous mutli-rotor drone including the use of Boost threads and writing a USB driver for the Linux OS. Has now expanded to use an Arduino microcontroller for on-board stabilisation and passing data wirelessly to a laptop.</p>
	Group Projects
	<p>Research project into Terahertz Technologies</p> <p>Produced a web game in a group using agile development techniques</p> <p>Large group project focusing on the langage evolution and leadership of independent agents within the setting of 2 player binary games, primarily the game of chicken.</p> <p>Group Project developing a robot that conducts surveys with the focus on Human-Robot Interaction</p>
TECHNICAL SKILLS	<p>Programming: C, C++, Java, Pascal, Python, BASH shell scripting, GNU make, SQL, VCS (SVN), ARM assembler, VHDL, UML, PHP, HTML, CSS, AJAX and JavaScript specifically the Google Maps API.</p> <p>Embedded Systems: Software and hardware development with Texas DSP and Altera FPGA platforms</p> <p>Computer Applications: T<sub>E</sub>X (L<sup>A</sup>T<sub>E</sub>X, B<sub>I</sub>B<sub>T</sub>E<sub>X</sub>), Office Suites, MATLAB, Modelsim, Synplify, Quartus II and some experience in Photoshop</p> <p>Operating Systems: Microsoft Windows family, Linux (OpenSUSE and Ubuntu)</p>
OTHER SKILLS	<p>Clean driving license since September 2007</p> <p>Working and organizing a team in Group Projects such as Duke of Edinburgh Award and at Cotswold Outdoor</p> <p>Leadership skills through volunteering at local Scout Group &amp; Group Projects during my degree</p> <p>Teamwork and Communication skills gain through Group Projects and Tour Guiding for my University</p>
HOBBIES AND INTERESTS	<p>Completed my Duke of Edinburgh Bronze and Silver Award and I am currently working through my Gold Award</p> <p>Enjoy outdoor pursuits such as rock climbing and skiing</p> <p>Achieved clarinet grade 5</p> <p>Interested in Photography and remote control helicopters/Unmanned Aerial Vehicles.</p>
REFERENCES	<p>Dr. J.V. Pitt (Personal Tutor) Email: j.pitt@imperial.ac.uk Tel No: 0207 594 6318</p> <p>Dr. Y. Demiris (Supervisor for Final Year Project) Email: y.demiris@imperial.ac.uk Tel No: 0207 594 6300</p>