

## Personal Biography

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I am currently employed by **Kleos Space Sarl** as a Principal Electronics Engineer and by **Magna Parva Ltd** as a Advanced Design and Development Engineer, working primarily in the Aerospace industry with Research and Development, Ground Support Equipment (GSE), and Instrument Calibration projects. I am a keen volunteer with **St John Ambulance**, operating as the District Radio Communications Officer, responsible for ensuring safe, legal and effective use of all communications equipment in relation to St John Ambulance operations in the district of Leicestershire, Northamptonshire and Rutland. I also maintain my Advanced First Aider qualification operating at events in a clinical capacity. At the University of Surrey I graduated with distinction in my degree in **Space Technology and Planetary Exploration** which has many aspects in common with electronic engineering degrees and includes modules on astrophysics and spacecraft operations. I have always maintained high average grades at school, with A's at GSCE and A level. I have also joined a local community hackerspace where I run electronics workshop and participate in open source projects in both electronics and programming.

- **Electronics Experience** in Design, Development and Test
- **Self Motivated** Worker
- Comprehensive **Programming** and **Software Development** Experience

## Technical Skills

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I am a capable programmer in multiple languages including C, C++, C#, Python, JavaScript, PHP, HTML, CSS bash, Maple, MatLab and SQL. I have also created multiple websites by using modern development tools such as bootstrap theme, Dojo Toolkit or the Meteor platform. I have created dynamic websites using vendor provided APIs, such as Google Maps, Trello, Esri and Microsoft Graph. I am competent in the use of a variety of different Operating Systems including Windows (7 and 10, 10 IoT Core), Linux (Ubuntu, Debian, Fedora, SUSE and Arch) and Android. I have a variety of experience setting up computer equipment, with knowledge in setting up full range from Servers, Workstations, Tablets, Mobiles and Embedded. I am experienced in a variety of virtualisation methodologies including full hypervisors (vmware and Hyper-V) and software containerisation (Docker).

I have experience in a Laboratory working environment and used to keeping an accurate log book. I am competent in the use of most common electronics test equipment, such Voltage Network Analysers (VNA), spectrum analysers, oscilloscopes, voltmeters and Data Acquisition modules (DAQ). I am a proficient solderer and use both hand and reflow soldering techniques for BGA or 0603 components. I am experienced in Printed Circuit Board (PCB) design and designing electronics for high volume batch production.

## Educational Background

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### University of Surrey (2006 to 2011)

Space Technology and Planetary Exploration, IET accredited degree  
Graduated with a Masters in Engineering (MEng) Distinction

|                                 |                            |
|---------------------------------|----------------------------|
| First Year: 81.5%               | Second Year: 73.7%         |
| Placement Year: 69.1% AUS Merit | Third Year: 72.4%          |
| Masters Year: 81.5%             | Overall: 75.8% Distinction |

### St. Bede's School, The Dicker (2001 to 2006)

British Secondary Education  
Completed A-levels and GSCE's

|                              |                  |
|------------------------------|------------------|
| Physics: A                   | Mathematics: A   |
| Business Studies: A          | Media Studies: A |
| GCSE: 5 A*, 2 A, 1 B and 1 C |                  |

## Professional Experience

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### OC Robotics (2008 to 2009)

My placement year was with a small company that specialised in snake arm robots. I experienced a chance to perform extensive cable testing, as well as embedded programming to create my own linear encoder and to create a PHP/MySQL component tracking database system.

### St John Ambulance (2006 to present)

I have taken on a large amount of **management and leadership responsibilities** within St John Ambulance. I have managed large scale events as a Bronze Officer **running high profile first aid posts** and regularly operate as radio communications officer responsible for the deployment of Emergency Ambulance and other resources throughout some large scale events. I have set up multiple new software systems to aid in the management of personnel both prior and during an event to ensure effective communication to all members. In my District Radio Communication Officer capacity I am now responsible for the safe, legal and effective use of all communications equipment in relation to St John Ambulance operations in the district of Leicestershire, Northamptonshire and Rutland. This has involved installing and maintaining a variety of VHF and UHF radio networks, overcoming black spots and communications issues potentially present at events.

### Computer Confidence (2011)

Working for a small IT company has allowed be to expand my knowledge of server and computer systems. My role was primarily Linux based server administration, automating processes such as running updates and backups on a dedicated hosting platform. It also involved the customisation and PHP scripting within multiple websites, including Search Engine Optimisation (SEO), W3 code validation and social media integration (Twitter, WordPress, Facebook).

### Magna Parva Ltd (2011 to present)

I am currently employed at Magna Parva Ltd as a Advanced Design and Development Engineer.

### Kleos Space Sarl (2017 to present)

I am currently employed at Kleos Space Sarl as a Principal Electronics Engineer.

## References

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References available on request.