

# Harrison Spain

## MEng MIET

A highly motivated, skilled, innovative and professional software engineer. Can integrate seamlessly into teams or work independently producing high quality software artefacts using a variety of languages, libraries, tools and techniques. Has key skills in building Java based enterprise applications utilising Elasticsearch and other tools. Able to learn new languages and technologies quickly.

### PERSONAL INFORMATION

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WEBSITE: [harrison-spain.com](http://harrison-spain.com)

### WORK EXPERIENCE

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SEPT 2016 - PRESENT <i>Software Engineer</i>	<b>BAE SYSTEMS APPLIED INTELLIGENCE, Guildford</b> Built a knowledge base application utilising a graph database to store and search highly connected data using Neo4j and Elasticsearch. Designed and built from the ground up a document searching solution integrated with Microsoft enterprise systems. Java, Elasticsearch and Angular 4 provide seamless document searching across multiple data sources. Created a unified Linux system monitoring solution across multiple client system using Nagios and shell scripting. Conducted a security audit of client systems to reduce the potential attack surface of the systems.
JUN 2015-SEPT 2015 <i>Software Engineer</i>	<b>Summer Intern at THALES UK, INNOVATION HUB, Crawley</b> Contributed to Centre for Maritime Intelligent Systems building and deploying maritime simulation software. Worked on tools for WebLVC and HLE-E interoperability protocols using Java, C++, JSON and WebSockets.
JUN 2013-AUG 2014 <i>Software Engineer</i>	<b>Industrial Placement at THALES UK, BTC, Crawley</b> Concept development and demonstration by means of low fidelity, yet highly flexible simulation. Created and maintained Java applications which supported the simulation, with some C++ work. Additionally produced scripts and scenarios for the VBS2 simulator.

### EDUCATION

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2011 - 2016	<b>Master of Engineering in COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE</b> <i>First Class Honours (79%), The University of York</i> First Year 78% Second Year 76% Third Year Year in Industry - Software Engineering and Software Testing Fourth Year 81% Fifth Year 78%
2009 - 2011	<b>A Levels at Oriel Sixth Form</b> Mathematics A* Computing A Physics B Chemistry (AS) C
2007 - 2009	<b>GCSEs at Oriel High School</b> 13 GCSEs (A-C) including: English, Mathematics, Physics, Biology, Chemistry, Electronics and ICT.

## AWARDS

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OCT. 2015 IBM Prize “Outstanding performance in the third year of his degree programme”

## SKILLS

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Core complacencies in **bold**.

Programming Languages	<b>Java</b> , Python, TypeScript, SQL, C++, C, MATLAB, Javascript, Bash, PHP
Operating Systems	<b>Linux</b> (Ubuntu, Debian, CentOS, RedHat), <b>Windows</b> , MacOS
IDEs & Editors	JetBrains IDEs ( <b>IntelliJ</b> ), <b>Eclipse</b> , Visual Studio, Nano, Vi, Notepad++
Office Software	Microsoft Office, iWork, <del>LT</del> EX, Open Office, Sharepoint
Libraries	<b>Mockito</b> , <b>Jackson</b> , Apache Tika, Apache ActiveMQ, Apache Camel, Rabbit MQ, Zero MQ
Frameworks	<b>Spring Framework</b> (Boot, Data, MVC), Django, Web2Py, Apache Tomcat, Flask, Angular 4
Other Technologies	<b>Git</b> , <b>Elasticsearch</b> & Kibana, <b>JSON</b> , Websockets, <b>XML</b> , XML Schema, VBS2, DDS, <b>HTML5</b> , Nagios, MySQL, <b>SSH</b> , Gradle & <b>Maven</b> , Microsoft SQL Server, Microsoft Exchange, Microsoft Sharepoint, Skype for Business, Lexalytics’ Saliency, <b>Neo4j</b> , <b>Docker</b> , AWS
Teamwork and Knowledge Sharing	<b>Agile</b> (Kanban, <b>Scrum</b> , XP), <b>Atlassian Tool Suite</b> (Jira, Bitbucket, Confluence, Fisheye, Crucible), GitHub, Slack, Team Management, <b>UML</b>

## INTERESTS AND ACTIVITIES

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Technology, Open-Source, Programming,  
PC Gaming, Clay Pigeon Shooting, Tennis,  
PC Building, Lego, Science Fiction,  
National Trust, Guitar, Photography

## OTHER EXPERIENCE

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JAN 2010 <i>Software Tester</i>	Work Experience at NATIONAL PHYSICAL LABORATORY, Teddington Assisted the development team in the testing of software that simulated Lock-In Amplifiers. Produced a statistical report of my test findings. Learnt about Monte Carlo calculations and their use in the simulator.
JAN 2008 <i>Equipment Tester</i>	Work Experience at OMICRON NANOTECHNOLOGY, East Grinstead Working with a team of three, assisted in assembly and quality assurance testing of vacuum chambers for use in research. Also assisted in the assembly of a delicate sensor for use in the vacuum chamber.