

Digital Resilience – The Need for “Secure by design” to ensure through-life CAV security

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ZENZIC²

SELF-DRIVING REVOLUTION

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The need for “secure by design” to ensure through-life CAV security



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Ricardo

&

Roke



Stand C2-111

Who am I?

Founder/Programmer,
Hereford

Global IT
Manager,
London and
Middle East

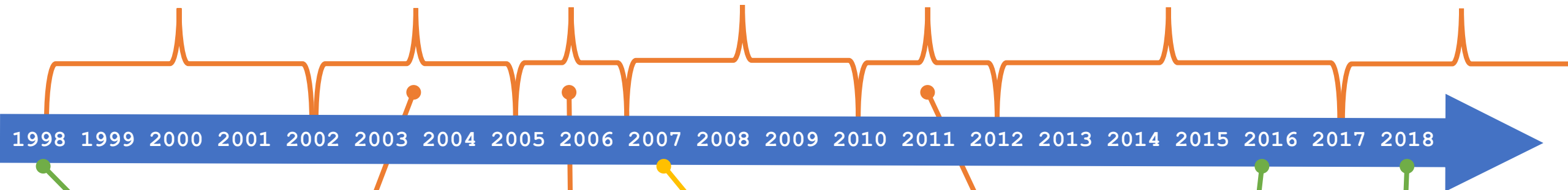
Security
Consultant
West
Africa

Information
Assurance
Consultant
UK

Programmer /
Tester
Strasbourg

Security Prototype Architect
to MOD
Bristol

Cyber Technical
Lead
Gloucester



1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018



BSc Comp
Sci, Uni of
Brum



Global IT
Manager,
London and
Middle East



Security
Consultant
West
Africa



The Big Lemon
Brighton



Programmer /
Tester
Strasbourg



ISO 27001 Lead
Implementer



CISMP

Cyber Technical
Lead
Gloucester

What is secure by design?

- To take care to minimize impact in anticipation of security vulnerabilities
- To increase security by reducing risk of vulnerability-opening mistakes



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The difficulty – how can we protect against vulnerabilities we don't yet know about?

- Hackers don't 'make' vulnerabilities
- Anticipation costs time



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Security good practices

- Use appropriate experts
- Protect the castle
- Don't rely on secrecy
- Principle of least privilege
- Patching, AV, backups etc.



General good practices

- Code review
- Code smells
- Testing at various levels

HOW TO MAKE A GOOD CODE REVIEW



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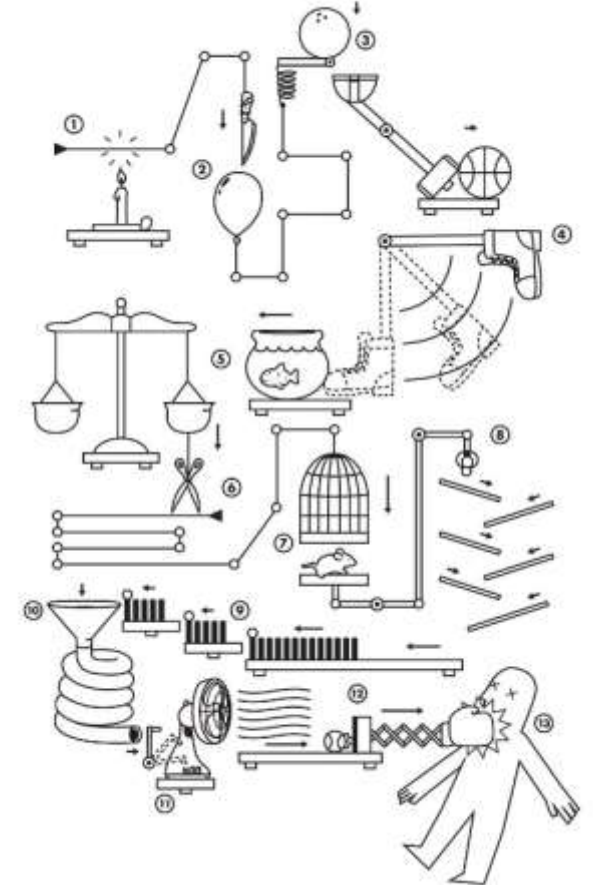


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Secure by design principles

- Make secure the default option
- Reduce the burden of security
- Transparency
- Planned resilience



The key to my heart car?



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What to do?

- Apply good practices (not just security ones)
- Think about the problem
- Sort it out!



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Thank you!

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