# Stella Appley-Cant

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## EDUCATION

University of South Mimms South Mimms, England

**Bachelor of Science in Biological and Ethical Systems** June 1999

GPA: 3.90

## EXPERIENCE

M1 Traffic Management Corp.

Principal Systems Engineer 10/2015 - present

* Systems engineer and specifier (formal methods) for highway traffic control management system and service:
* Requirements engineering and architectural design for conversion of an operational existing management system into a platform-independent service, operating on a generic platform and with a new HMI,
* Requirements engineering, architectural design, formal specification and impact analysis for changes to an operational tactical separation management system

BioEthics PLC

Operational Risk Analyist 3/2014 – 10/2015

* Operational risk analyst, for BioEthics company IT department
* Adapting our internal method to suit the customer’s needs and constraints
* Training a small team of IT and finance experts in our method
* Performing and reporting the analysis with the team, ensuring effective use of the adapted method.

Choo2Rail

Senior Test Engineer 5/2012 – 10/2014

* Verification specialist, working on railroad systems
* Writing a generic, tailorable verification strategy and process for a rail system
* Writing the verification strategy and process for a rail project generating prototype software
* Assessing an rail project experiencing verification challenges in certified software to a tight schedule: recommend strategic changes and implementing them to enable delivery of certification evidence to an agreed schedule

Clearway Systems

Development Engineer 4/2009 – 5/2012

* Verification engineer, requirements engineer developing and maintaining a highway traffic control management system.
* Writing the project verification strategy, processes, templates and standards to deliver safety verification evidence, with a team of company engineers and contractors across multiple sites.
* Formally specifying aspects of the system (HMI and parts of the engine), using formal method (Z) and UML, and providing impact analysis for changes.
* Eliciting system requirements from stakeholder workshops.

Clearway Systems

Development Engineer 4/2007 – 4/2009

* Trainer in safety for various Highway Management System projects.
* Fault tree analysis for communications (developing and reviewing fault trees, presenting to the customer).
* Hazard analysis through workshops.
* eSafety Case and hazard log database developer and maintainer for critical infrastructure information system.
* Delivering formal training in requirements engineering for operational risk management.

Clearway Systems

Development Engineer 10/2001 – 4/2007

* Requirements engineer, trainer and verification engineer for various highway traffic management projects:
* Tool developer and coach for railroad rolling stock manufacturer.
* Verifier for traffic information system updates, deriving verification conditions and test from Z specification.
* Requirement maintainer/ database maintainer and tool support

## SKILLS

Software: Microsoft Office, VBA, AutoCad

## HONORS & AWARDS

Clearway Young Engineer of the Year 2005