



# Visual Studio 2012 - Web Development

By Dr Derek Peacock

# My Background

- No qualifications in Computing
- Self taught to use programming as research tool
- Learnt Fortran IV in 1967, then PLI, Algol 60, Pascal, ....
- Never stopped learning
- Started teaching Programming in 1981 using Basic from audio tape
- Designed and validated own HND, taught 14 out of 16 HND units
- Worked with Leicester, Derby, De Montfort and Sunderland Universities
- Taught BSc 3<sup>rd</sup> year Computing Modules, published 25 papers

# My Main Web Sites

- [www.derekpeacock.co.uk](http://www.derekpeacock.co.uk)
  - Used to support my current teaching of web development
- [www.valeriansoftware.com](http://www.valeriansoftware.com)
  - An attempt at developing a commercial online Project Management web site
- [www.valerianweb.com/wordpress](http://www.valerianweb.com/wordpress)
  - Blogsite for posts from Leicester College



# Writing Code

- Code must be readable
  - Consistent layout
  - Good choice of names
  - Keep it simple
- Code should not contain unnecessary duplication
- More than writing code
  - Design Patterns
  - Test Driven Development
  - Separation of concerns



# Web Development

- Separation of concerns
  - Content – HTML
  - Design & Style – Css
  - Functionality – JavaScript, jQuery, VB, C#
- Accessibility
- Fluid Grids & Flexibility
- Responsive Design
- Browser Compatibility



# Suggested Module Aims

- Meet Module Objectives
- Add Value by
  - Enhancing Job Prospects
  - Integrated approach in modules
  - Emphasising good practice
  - Increase awareness of modern techniques & technology
  - Using teamwork where possible
  - Using bonus schemes to increase motivation
  - Emphasising common principles



## My Aims

- To increase your knowledge and ability to use HTML5, CSS3, C#, ASP.NET Web Forms, Asp.NET MVC4
- To highlight and discuss good practice
- To suggest ways to develop an integrated approach to modules
- To learn from each other

# Changes for 2013-2014

- DMU
  - Year 1 - C#, SQL Server (LocalDb), HTML5
  - Year 2 – 50% in 2 Assessments + 50% in Phase Tests
- Visual Studio 2012
  - LocalDb instead of SQL Express
  - HTML5, jQuery, Modernizer, Responsive Css
  - MVC => Web Forms
  - Cannot upsize Access => SQL Server LocalDb
  - Changed ASP.NET Membership