# Computer Science? <br> Software Engineering? 

## Dr Marc Conrad University of Bedfordshire

## Computer Science...

## computer

 development ${ }_{\text {eneresing engineering tundanentals }}$ integrated intelligence introduction management methodologies modern object operating oriented practices principles professional programming project research security software structure studies systems technologies
## Software Engineering...

## advanced applications artificial computer concepts database development emerging engineering

 fundamentals intelligence introduction management methodologies mobite modern object

## Computer Science Software Engineering

- Computer
- Systems
- Programming
- Software
- Technologies
- Project

Computer smmanmans same Technologies Project


## Computer

- Desktop
- Laptop
- Handheld Device
- Tablet
- Embedded System
- Mainframe

....



## Systems

- Systems of Computers
- distributed systems, world wide web, internet, ...
- Computers and other Machines
- car, dishwasher, digital radio, ...
- Computers and People,
- me, you, the guy over there, ...


## Software Technologies Project



## Programming

- Programming Languages - Java, asp, php, LSL, C++, C, ...
- http://www.lextrait.com/vincent/implementations.html
- What's the best programming language?
- Very much depends. On what?
- Algorithms
- Find data, sort data, process data...


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## Technologies Project



## Software

- What software do we need?
- What software can we do?
- How many bugs do we want?
- How many bugs do we have?

Computer Systems Programming Software

## Technologies foper

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Any time
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SIX TECHNOLOGIES
that changed my life

 Full color
Black and white


18


र
Technology
learning


## Technologies

- Hardware
- Networks
- Devices
- Interfaces

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Computer Systems Programming Software Technologies

## Project




## Project

- Cost, Time, Scope, Quality
- Human Resources, Communication
- Procurement, Integration,
- Risk


## 

- Computer
- Works on desktops, laptops, mobile devices,...
- Systems
- Social Interaction, Security, Privacy
- Programming:
- php (plus many others for subsystems)
- Software
- What do we want? What do facbook's clients want? What does facebook's shareholders want?
- Technologies
- Networking, the 'Internet', ...
- Project
- 3,976 employees at the end of June 2012.


## Example: THIS TALK

- Computer
- Desktop Machine
- Systems
- Interaction of beamer, keyboard, mouse, screen ....
- Programming:
- C++ (for PowerPoint)
- Software
- PowerPoint, beamer as embedded system
- Technologies
- Networking, CPU, GPU, Laser, ...
- Project
- Preparing these slides (when? How many?)


## So we have...

- Computer
- Systems
- Programming
- Software
- Technologies
- Projects


## Computer

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## 



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## Software

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Large
Medium
Medium
Icon
Larger than..
Exactly...

Any color
Full color
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Face


(M) MrAfee $\Theta$

## People at beds.ac.uk



# ulo <br> University of Bedfordshire <br> Students <br> <br> at beds.ac.uk 

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## You? at beds.ac.uk

## 



- University is People. People are University
- Join the University, become part of it...
- BSc (Hons) Computer Science
- BSc (Hons) Software Engineering
- BSc (Hons) Information Systems
- BSc (Hons) Computing and Mathematics
- BSc (Hons) Business Information Systems
- BSc (Hons) AI and Robotics
- and many more...

