INFO1010

Week 2
Towards a skills audit
Su White October 2010
approach

• This class will be run as an interactive discussion

• The objective is that understanding and learning will be achieved through
  – individual reflection
  – small group discussion
  – brief in class exercises
  – Plenary discussion with the class
Four parts

• Context setting
• ECS graduates
  • where they go
  • what they do
• What you can do
• Skills in your group
1. In your tutor groups
   Identify one thing which
   ***I know for certain***
   about all the people
   who should be
   attending this class
today?

   Apart from the fact that they should be attending today ;-)

What do I know?
What do you know?

In your tutor groups
Identify some things which

** you know for certain**

about the degree programme
you are enrolled on

Identify some things which

** you know with a high degree of confidence**

about the degree programme
you are enrolled on
What did you think?

Feedback from class
CS and ITO graduates jobs?

• Have a think…in small groups
• What destinations?
• What sort of salaries?

Feedback around the class

Lets look at the real data
Destinations 2008

Destinations of Leavers From Higher Education 2006-2008
School of Electronics and Computer Science - Computing & IT Division
Full-Time Primary Degree Graduates

- Declined to Take Part
- Other
- Not Available for Employment
- Assumed Unemployed
- Further Study Only
- Work & further Study
- Part-Time Paid Work
- Full-Time Paid Work

<table>
<thead>
<tr>
<th>Year</th>
<th>Full-Time Paid Work</th>
<th>Part-Time Paid Work</th>
<th>Work &amp; further Study</th>
<th>Further Study Only</th>
<th>Assumed Unemployed</th>
<th>Not Available for Employment</th>
<th>Other</th>
<th>Declined to Take Part</th>
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</thead>
<tbody>
<tr>
<td>2006</td>
<td>50%</td>
<td>3%</td>
<td>4%</td>
<td>9%</td>
<td>9%</td>
<td>5%</td>
<td>1%</td>
<td>13%</td>
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<tr>
<td>2007</td>
<td>59%</td>
<td>3%</td>
<td>5%</td>
<td>13%</td>
<td>8%</td>
<td>4%</td>
<td>1%</td>
<td>1%</td>
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<tr>
<td>2008</td>
<td>65%</td>
<td>1%</td>
<td>5%</td>
<td>15%</td>
<td>4%</td>
<td>1%</td>
<td>1%</td>
<td>4%</td>
</tr>
</tbody>
</table>
Last year

Looking at the figures

From what I know of our graduates last year many not on the formal return were successful in gaining work by the end of the summer vacation.
Specialist Destinations?

Destinations of Leavers from Higher Education 2008
School of Electronics and Computer Science
Full-Time Primary Degree Computer Science Graduates

- 92%
- 8%
Typical jobs

- SOFTWARE ENGINEER
- IT ENGINEER
- SHOP ASSISTANT
- COMPUTER ANALYST
- GRADUATE TRAINEE
- PROJECT CONTROL ANALYST
- FINANCIAL SOFTWARE DEVELOPER
- JUNIOR SOFTWARE ASSISTANT
- JUNIOR SOFTWARE ENGINEER
- SENIOR DEVELOPER
- SOFTWARE DEVELOPER
- SOFTWARE ENGINEER
- COMPUTER PROGRAMMER
- ENTERPRISE TECHNOLOGY AND DELIVERY
- ANALYST
- GRADUATE TRAINEE
- WEB DEVELOPER
- ACA TRAINEE
- IT ASSISTANT
- GRADUATE TRAINEE IN IT
- GRADUATE SYSTEMS DESIGNER
- JUNIOR WEB DEVELOPER
- WEBPAGE EDITOR
- LIVE MEDIA DESIGNER
- ANALYST
- GRADUATE JUNIOR PROGRAMMER
- RESEARCH ENGINEER
- SOFTWARE DEVELOPMENT
- SOFTWARE ENGINEER GRADUATE RESEARCHER
- SOFTWARE DESIGNER
- SOFTWARE DEVELOPER
- SOFTWARE DEVELOPMENT
- TRAINEE SOFTWARE ENGINEER
- ANALYST PROGRAMMER
- COMPUTER PROGRAMMER
- CONTENT DEVELOPER
- PROGRAMMER INFORMATION ANALYST
- UK EXECUTIVE PRODUCER
- FREELANCE IT CONSULTANT
- GRADUATE CONSULTANT
- IT ASSOCIATE
- SOFTWARE ENGINEER
- TECHNICAL PROJECT ASSISTANT
- BACK OFFICE
- COMPUTER PROGRAMMER ANALYST
- CUSTOMER SALES EXECUTIVE
- ICT SUPPORT TECHNICIAN
- ACCOUNT MANAGER
- MANAGER
- CONSULTANT
- IT CONSULTANT
- SOFTWARE DEVELOPER
- TECHNICAL ENGINEER
- TECHNICAL SPECIALIST
- CHANGE ANALYST
- SENIOR IT ANALYST
- JUNIOR WEB DEVELOPER AND GRAPHIC
- DESIGNER
- WEBSITE MERCHANDISER
- IT GRADUATE ENGINEER
- SOFTWARE ENGINEER
- IMPLEMENTATION CONSULTANT
Sectors

- SOFTWARE ENGINEERING
- IT SERVICES
- SELLS BIKES
- BANKING AND FINANCIAL MANAGEMENT
- ELECTRONIC ENGINEERING
- IT OUTSOURCING
- DEVELOPS FINANCIAL SOFTWARE
- SUBTITLING SYSTEMS
- TELECOMMUNICATIONS
- RESEARCH INTO LEARNING SYSTEMS
- FLIGHT DATA MONITORING
- PROVIDES FINANCIAL SOFTWARE TO INVESTMENT PROFESSIONALS
- GAMING
- INVESTMENT AND COMMERCIAL BANKING
- FUND MANAGEMENT
- DIGITAL MEDIA COMPANY
- OFFERS AUDIT/ACCOUNTING ETC. SERVICES
- RESEARCH
- INVESTMENT BANKING
- UNIVERSITY EDUCATE
- BANK
- EDUCATION
- SOFTWARE PRODUCTS
- BESPOKE SOFTWARE DEVELOPMENT
- COMPUTER PROGRAMMING
- DEVELOPS & MAINTAINS ONLINE GAMES
- DEVELOPS & PUBLISHES COMPUTER GAMES
- LIFE INSURANCE
- UNIVERSITY
- ONLINE DELIVERY FOR WAITROSE
- STUDENTS' UNION
- BANKING
- WRITES COMPUTER GAMES
- WRITES SOFTWARE
- SOFTWARE DEVELOPMENT
- IT ORGANISATION
- DEVELOPS & MARKETS BUSINESS PROCESS
- MANAGEMENT SOFTWARE
- RESTAURANT
- CONSULTANCY
- CONSULTANCY SOFTWARE DEVELOPMENT
- FINANCIAL SOFTWARE
- PROVIDE IT BUSINESS SOLUTIONS
- PRODUCE SERVERS, MIDDLEWARE etc
- FINANCE INFORMATION
- INFORMATION TECHNOLOGY
- OUTSOURCING IT SYSTEMS
- BANKING
- PROFESSIONAL TRAINING.
- RETAILS DIY GOODS THROUGH INTERNET & STORES
- BRITISH AIRWAYS
- ACCOUNTING & FINANCE
- BANK
- FLEXIBLE BENEFITS SOLUTIONS
- MORTGAGE BROKERS
- MAKES TV PROGRAMS, COVERS MAJOR FASHION WEEKS, MUSIC VIDEOS
- SEO & INTERNET APPLICATIONS FOR CLIENTS
- IT SERVICES
- INVESTMENT MANAGEMENT
- TELECOMMUNICATIONS
- SOFTWARE DEVELOPMENT
- GAMBLING SOFTWARE SPORTSBOOK FOGS
- COMPUTER GAME DEVELOPMENT
- INVESTMENT BANKING
PhD/MSc

• 4 go on to University of Southampton
• 3 go on to other further study destinations
Destinations 2008

- ROYAL BANK OF SCOTLAND
- THOMSONS ONLINE BENEFITS
- IN DIGITAL MEDIA
- MOMENTUM WEB SOLUTIONS
- EDS
- CAPITAL GROUP COMPANIES (CAPITAL INTERNATIONAL)
- BT
- ORBIS TECHNOLOGY
- FACTSET PACIFIC
- NOT ENTERING
- IBM
- DORSET SOFTWARE SERVICES LTD
- JAGEX
- CODEMASTERS
- NORWICH UNION LIFE
- UNIVERSITY OF SOUTHAMPTON
- WAITROSE
- ARENAC
- HARGREAVES CYCLES
- MERRILL LYNCH
- CSC
- BLOOMBERG LP
- SCREEN SUBTITLING SYSTEMS LTD
- NOKIA
- LSL, UNIVERSITY OF SOUTHAMPTON
- FLIGHT DATA SERVICES LTD
- FACTSET RESEARCH SYSTEMS
- BIZARRE
- BANK OF AMERICA
- M&G INVESTMENTS
- COGAPP
- PRICEWATERHOUSE COOPERS
- UNIVERSITY OF SOUTHAMPTON
- GOLDMAN SACHS
- UNIVERSITY STUDENTS UNION
- HBOS
- UNIVERSITY OF SOUTHAMPTON
- HSBC
- KING ECGBERT SCHOOL
- ORBIS SOFTWARE
- DETICA
- IBM UK LTD
- SSP
- ULTIMA BUSINESS SOLUTIONS
- STERIA
- BARCLAYS BANK HEAD OFFICE
- MATCHETT
- B&Q STORE SUPPORT OFFICE
- BRITISH AIRWAYS
- JP MORGAN
- CLIMAX
- IT INNOVATION CENTRE
- ORBIS TECHNOLOGIES
- MATRIX DATA SOLUTIONS
## Salary Range on First Job

<table>
<thead>
<tr>
<th>Question</th>
<th>Low Salary</th>
<th>Average Salary</th>
<th>Median Salary</th>
<th>High Salary</th>
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<tbody>
<tr>
<td></td>
<td>£17,000</td>
<td>£24,000 avg salary</td>
<td>£24,000 median salary</td>
<td>£40,000 top salary</td>
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<tr>
<td></td>
<td>This year £18,000</td>
<td>This year £23,250</td>
<td>This year £23,000</td>
<td>This year £30,000</td>
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</tbody>
</table>

*What matters is that you find what is right for you :-)*

*So…find out now what might be right for you*

*but …*

- over half of the respondents did not provide details
- May have been the lower paid jobs
- Jobs may have rapid increases in early years
- Jobs may have been stop gaps

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*£17,000 low salary
This year £18,000
£24,000 avg salary
This year £23,250
£24,000 median salary
This year £23,000
£40,000 top salary
This year £30,000*
What to do?

• How can you make your university career work for you?

• Places to go, things to do

• Not the only things by a long way
• More will be covered in later classes
Welcome to the ECS Careers Hub

Current opportunities
In addition to graduate recruitment programmes offered by our affiliated companies, we also list specific new vacancies here. (requires an ECS login to view)

Find out more

Affiliated companies
Find out more about the culture, training programmes and future prospects offered by some of the UK's most exciting graduate recruiters.

Find out more

Careers advice
From perfecting your CV to honing your interview skills, we want to ensure that you have the advice you need to get the job you want.

Find out more

ECS graduates
ECS graduates provide their personal perspective on their careers after University and the value of their degrees.

Find out more

http://www.ecs.soton.ac.uk/careers/
Current on Careers Hub

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Company</th>
<th>Type</th>
<th>Date Closes</th>
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<tbody>
<tr>
<td>Junior Systems Administrator</td>
<td>Gloucester Research Ltd</td>
<td>placement</td>
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<td>Graduate Opportunities</td>
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<td>Electrical Engineer</td>
<td>Glaxo Smith Kline</td>
<td>placement</td>
<td>Jan 22, 2011</td>
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<td>Tech Opportunities</td>
<td>Trafalgar</td>
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<td>Dec 24, 2010</td>
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<tr>
<td>Java Developer</td>
<td>Querix UK</td>
<td>permanent</td>
<td>Dec 24, 2010</td>
</tr>
<tr>
<td>Front end web developer</td>
<td>evolutionsofsearch</td>
<td>contract</td>
<td>Dec 24, 2010</td>
</tr>
<tr>
<td>Software Analyst</td>
<td>Querix UK</td>
<td>permanent</td>
<td>Dec 24, 2010</td>
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<tr>
<td>E-Learning Assistants</td>
<td>University of Southampton</td>
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<td>Software Engineers</td>
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<td>IT Trainees</td>
<td>Henderson</td>
<td>internship</td>
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<tr>
<td>Web Developer</td>
<td>Mango Digital</td>
<td>permanent</td>
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<tr>
<td>Software Developer</td>
<td>BRM Fusion</td>
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<tr>
<td>Software Developer</td>
<td>V7 Technology</td>
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<td>Nov 9, 2010</td>
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<tr>
<td>Software Analyst</td>
<td>Querix UK</td>
<td>permanent</td>
<td>Nov 9, 2010</td>
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<tr>
<td>Electronics Engineers</td>
<td>WheelRight Ltd</td>
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<tr>
<td>Software Engineers</td>
<td>WheelRight Ltd</td>
<td>perm</td>
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<tr>
<td>GIS Developer</td>
<td>ESRI (UK) Ltd</td>
<td>permanent</td>
<td>Nov 5, 2010</td>
</tr>
<tr>
<td>Software Developer</td>
<td>Ardis Systems</td>
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<td>Nov 5, 2010</td>
</tr>
<tr>
<td>Software Engineers/Developers</td>
<td>MBA Systems</td>
<td>permanent</td>
<td>Nov 3, 2010</td>
</tr>
<tr>
<td>Software Engineer</td>
<td>REA/Systems Ltd.</td>
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<td>Oct 26, 2010</td>
</tr>
<tr>
<td>Graduate Design Engineer</td>
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<tr>
<td>Graduate</td>
<td>De La Rue</td>
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<td>Oct 26, 2010</td>
</tr>
<tr>
<td>PHP Drupal CMS Developer</td>
<td>Actimage</td>
<td>placement</td>
<td>Oct 26, 2010</td>
</tr>
<tr>
<td>Java/.Net Developer</td>
<td>Actimage</td>
<td>placement</td>
<td>Oct 26, 2010</td>
</tr>
<tr>
<td>PHP Developer</td>
<td>Actimage</td>
<td>placement</td>
<td>Oct 26, 2010</td>
</tr>
<tr>
<td>Graduate Software Developer</td>
<td>Koios</td>
<td>permanent</td>
<td>Oct 26, 2010</td>
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</table>
Career Destinations

http://www.soton.ac.uk/careers/
SUSU employability

http://getajob.susu.org/
Networking, careers etc..

http://www.bcs.org/
Student membership

http://www.bcs.org/
Academic Skills

Academic Skills are all about helping you learn how to be a more effective learner and develop the research skills that will help you now and in the future. Use these resources to find out what works for you.

New! Academic Skills Podcasts

Study Skills Toolkit
Enrol yourself on this Blackboard course which is packed with interactive learning materials. Additional topics are available for 2008-09.

Getting Started with Academic Skills
Start with these quick-reference guides to gain an overview and lots of practical tips.

Developing Your Academic Skills
Use this series of printable activity-based study guides to improve your skills.

Advice from the Students' Union Advice and Information Centre
Publications on Academic Integrity and How to Study Successfully.

Further reading on Academic Skills
A few carefully-selected books and Web resources.

http://www.academic-skills.soton.ac.uk/
Networking for understanding, contacts,++
Focus:
Qualities found in a good CS/IT undergraduate

- Creative
- Good Communicator
- Enthusiastic
- Self aware
- Can work in a team
- Self motivated

In your groups what skills will an employer look for?
Skills in your group?

- Individually
  - make a quick list
    - What you have
    - What you want
    - What you avoid

- As a group
  - draw up a matrix
    - What you have
    - What you could have (soon;-)

- Round the class feedback
### Suggested follow up activities

#### Short Term

- Reflect on your future, what do you want, how are you going to get it
- Make use of opportunities – SUSU and ECSS are good starting points
- Check out the service provided by Careers Destinations

#### Longer Term

- Plan your summer work with a specific objective
- Think about how you can link academic and work objectives
- Keep thinking 😊
references

• Use the academic skills web site, it provides links to a range of resources
  http://www.academic-skills.soton.ac.uk/
• Look at professional organisations
• BCS website http://www.bcs.org/
• IET http://www.theiet.org/
• IEEE http://www.ieee.org/
• ACM http://www.acm.org/

For ideas about what skill our employers are looking for
Computer Weekly (includes job search)
Association of Graduate Recruiters (linked from EdShare)