3rd year projects –
Making the final hurdle

Markus Roggenbach (Swansea, Wales)

March 2011
Time-line

04.3. – Today
04.4. – Easter Break begins
02.5. – Term starts again
12.5. – Project Fair
18.5. – Submission of the Dissertation
Outline

Writing the dissertation

Project Fair
Writing the dissertation
An example (in part “stolen” from Daniel):

1. Introduction

Increasing software complexity requires more sophisticated testing methods – Data Protection Act prevents use of “real data” $\rightarrow$ 1st reason for data generation – have “good” test data $\rightarrow$ 2nd reason for data generation – Industrial Partner: Grid Tools – Project aims: generation of data with trends, demonstrated on Credit Card Fraud, integrated in DataMaker.
2. Industrial Relation
Company Grid Tools – Visits and cooperation – Tool DataMaker: What it is for, how it works, what it is programmed in, what its interfaces are – What we know about Credit Card Fraud detection

3. Testing
Testing in general, with focus on black-box testing – distinction between test case and test configuration – Decision Tables in testing

4. Genetic algorithms
The basic idea – Crossover, mutation, evaluation – . . .
Meet your supervisor on this BEFORE the Easter Break!
Recommendations

Plan for a

- self-contained
- 40% background – 60% own work
- 60 – 80 pages

document.

Start now! – At least with the outline.
Write background in parallel to producing new results.

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Natural overlap with previous documents

Dissertation, Initial Document, Interim Document address

- Motivation of the project
- Background studies
- Technology involved
- First prototype
- Etc.
Relation between these documents

Initial Document / Interim Document:
Premature discussion only.

Dissertation:

- Can re-use texts from previous documents provided they have be re-viewed / altered in the light of the larger experience gained.
- Should demonstrate progress beyond the results already achieved in the earlier documents.
For the rest

See the Project Handbook!
Project Fair
Prepare poster design over the Easter Break

- What is the project about?
- What methods were used?
- How was the problem solved?
- What are the results?
Poster printing

Term starts: Monday, 2.5.

Free printing with IT Wales – A3 format

Available dates:
  Monday, 9.5. & Tuesday, 10.5.
Finances for the Fair

- 50% TechnoCamps (EU project)
- 50% Software Alliance Wales (EU project)

Consequently
- In the morning: Show for school kids
- In the evening: Show for industry

And in the middle
- Show for the department / college of science
Three prizes from the department

Best poster prizes based on the vote from
1. School kids – 20 GBP
2. Academic staff – 200 GBP
3. Industry – 200 GBP
Tentative Time-line – Wednesday afternoon

Wednesday, 11.5.

<table>
<thead>
<tr>
<th>Time</th>
<th>Dining Room A:</th>
<th>Dining Room B:</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.00</td>
<td>set up poster</td>
<td>check the computers</td>
</tr>
<tr>
<td>17.00</td>
<td></td>
<td>End</td>
</tr>
</tbody>
</table>

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# Tentative Time-line – Thursday morning

**Thursday, 12.5.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Dining Room A:</th>
<th>Dining Room B:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00</td>
<td>Schools arrive</td>
<td>Students arrive</td>
</tr>
<tr>
<td>10.15</td>
<td>Welcome (FGM)</td>
<td>Project Fair for School Kids</td>
</tr>
<tr>
<td>10.20</td>
<td>Game programming with the Wii (Liam/Phil)</td>
<td></td>
</tr>
<tr>
<td>10.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.15</td>
<td>Lunch for Schools &amp; Students</td>
<td></td>
</tr>
</tbody>
</table>
## Tentative Time-line – Thursday afternoon

### Thursday, 12.5.

<table>
<thead>
<tr>
<th>Time</th>
<th>Dining Room A:</th>
<th>Dining Room B:</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.30</td>
<td>Students arrive</td>
<td>Students arrive</td>
</tr>
<tr>
<td>16.00</td>
<td>Fair for the departmental public</td>
<td>Fair for Industry + departmental public</td>
</tr>
<tr>
<td></td>
<td>(1st, 2nd year, most of the marking)</td>
<td>(Msc, postgrads, part of the marking)</td>
</tr>
<tr>
<td>17.30</td>
<td>Welcome of Industry (BetI)</td>
<td></td>
</tr>
<tr>
<td>18.00</td>
<td>Networking Prizes</td>
<td>Fair for Industry + departmental public</td>
</tr>
<tr>
<td>19.30</td>
<td>End of the Fair</td>
<td></td>
</tr>
</tbody>
</table>

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Compulsory

- Wednesday afternoon – setup (30 min)
- Thursday afternoon: 15.30 – 20.00
20 – 30 Volunteers needed

for the Thursday morning

**Work:** Exhibition for the school kids

**Bribe:** Free lunch

6 students have already been signed up :-)

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On request of IT Wales

Please come
- well dressed (smart casual?)
- well shaved
- with styled hair
- wearing nice perfume
- . . .
Job market for BSc students

1. Have a CV ready [“CV clinic” by Liz from IT Wales]
2. Advertise at the info board
3. Be around for networking

4. Have a handout for your project?
5. Have business cards?
1. Have a CV ready [“CV clinic” by Liz from IT Wales]
2. Advertise at the info board
3. Be around for networking
4. Have a handout for your project?
5. Have business cards?
Good luck with your projects!