Final Report Format

Prof. Shervin Shirmohammadi
SITE, University of Ottawa
Documents to Submit

• Final Report is essentially your development plan for the next semester. It must include:
  – System Requirements Specification (SRS)
  – WBS, Schedule with Milestones, and Estimated Budget
  – Risk Management Plan
  – Detailed Design
  – Test Plan
  – Simulation Results
    • Proof-of-Concept, if applicable.
SRS

• System Requirements Specification
• List all functional and non-functional requirement
• Specify any limitations, special cases, etc.
Risk Management Plan

- Essentially a table with risks listed in order of priority, the mitigation plan, who is going to do it, by when, etc.

- See lecture 2 for details

<table>
<thead>
<tr>
<th>ID</th>
<th>Risk Item</th>
<th>Trigger</th>
<th>Value</th>
<th>Risk Exp.</th>
<th>Resolution Approach</th>
<th>Who</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Too few engineering experts</td>
<td>10</td>
<td>12</td>
<td>630</td>
<td>Contract now for more</td>
<td>PM</td>
<td>1/15</td>
</tr>
<tr>
<td>2</td>
<td>Design schedule tight</td>
<td>25</td>
<td>28</td>
<td>450</td>
<td>Enforce Delphi estimates</td>
<td>PM</td>
<td>ongoing</td>
</tr>
<tr>
<td>3</td>
<td>Report function weak</td>
<td>20</td>
<td>25</td>
<td>180</td>
<td>Review with customer</td>
<td>Project Leader</td>
<td>2/15</td>
</tr>
</tbody>
</table>
WBS, Schedule, and Budget

- Gantt chart showing the WBS, schedule, and milestones. Don’t forget to add a 20% buffer!
- Also include your budget calculations.
Detailed Design

• High level architecture of the system, and
• Detailed designed, including all subcomponents and their relation
• Both hardware and software
  – Hardware: Block diagrams
  – Software: Design diagram
• Give all details:
  – specific hardware components (micro, sensors, etc.)
  – circuit details (layout, resistors, capacitors, etc.)
  – software details: programming language, platform, etc.
  – …
Test Plan

• **Detailed description** of how you are going to test the system.

• Include **Verification Results**

• Verification: must be done before the end of this semester (see lecture 3 for details).
  – List mistakes/oversights caught by verification.
  – No more than 1 page.

• Include **Test Cases** and scenarios
  – See lecture 3 for details.
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Simulation Results

• Describe how simulation was done
• Include simulation model
• List assumptions and simplifications
• Present the results of the simulation, and how they justify the design
• Include proof-of-concept discussion, if applicable.