



MEng UG Year 4

DEPARTMENT OF COMPUTER SCIENCE

Group Project (Integrated Masters) (GPIG)

Open Group Assessment 2 (Final Group Report)

Issued: Monday, 22nd April, 2016

Submission due: 12 noon, Friday 3rd June, 2016

Feedback and marks due: Monday 6th June, 2016

Each team** should submit their report as a PDF document, using the electronic submission system:

<http://www.cs.york.ac.uk/student/assessment/submit/>

by 12:00 noon, Friday 3rd June, 2016

A report (or part of a report) submitted after this deadline will be marked initially as if it had been handed in on time, but the Board of Examiners will normally apply a lateness penalty to the whole assessment.

**Team lists are on the module webpage: <http://www-module.cs.york.ac.uk/gpig/> - if you cannot see your name please email: john.mcdermid@york.ac.uk immediately.

Your attention is drawn to the Guidelines on Mutual Assistance and Collaboration in the Departmental Statement on Assessment:

<http://www.cs.york.ac.uk/student/assessment/policies/#AcademicMisconduct>

As this is a team assessment, you may freely assist and collaborate with other members of your team.

Feedback and Marks: The feedback and marks date is guided by departmental policy but, in exceptional cases, there may be a delay. In these cases, all students expecting feedback will be emailed by the module owner with a revised feedback date.

Assessment Queries: Any queries on this assessment should be addressed to john.mcdermid@york.ac.uk Answers that apply to all students will be posted on the GPIG webpage.

Rubric

The Final Group Report is worth 55% of the GPIG module mark. The context of the report is given directly below – the content required for the report is given on following page.

A word count and a note of how it was obtained should also be given on the front page of the report. Reports must not exceed 8,000 words or 24 pages, excluding the cover sheet and references. Reports exceeding these limits may not be marked.

Both the team name and the names of all team members should also appear on the front cover of your report. Do not include examination numbers as these are private to individuals.

The marking scheme for the assessment is at the end of the document following the content required for each report.

Context of the Report

The report is one of the key, final outputs from the GPIG team project. The project is an open-ended activity, intended to identify, prototype, demonstrate and test (in order to validate) an autonomous system for the Customer. In broad terms, the project aims are as follows:

Identify, prototype and demonstrate an autonomous system and command and control system for a flood management application. The system is to be developed to operate in a “swarm” controlled remotely and collaborating with other autonomous systems.

1. Content of the Report

The final report should set out the work the team has undertaken to develop the prototype, including a rationale for their choices. It should also address the way in which the team has worked together, and how effective they have been. More specifically, the report should contain:

1. A concise statement of the system definition, including the key features, both functional and non-functional
2. An overview of the system architecture, including the way in which the Raspberry Pis have been utilised, and how command and control is managed, including how specific issues are addressed
3. A summary of the state of the implementation, at the time of the demonstration, and an assessment of what needs to be done in order to develop the system to an initially deployable state
4. An assessment of the work done by the team, in terms of the stages of the software life cycle addressed
5. A market assessment, including identification of the aspects of the system that would enable it to be a viable product in countries affected by flooding
6. A summary of the development, including group performance, and those aspects of the group organisation that worked well and those that, with hindsight, would have been tackled differently

Note: where appropriate, to save space, the final report can refer back to material in the initial report rather than repeat material verbatim.

Marking Scheme

Marks will be awarded under four headings, as follows:

1. **Technical Proposition (40%):** Does the report demonstrate a clear understanding of what has been done, and how to evolve the demonstration system into a viable technical system that could be deployed?
2. **Potential (20%)** Is the system innovative, with clearly articulated market potential, and does the report show how it could be evolved to address an international market?
3. **Team Work (20%):** How effective has the team been, in terms of productivity, collaborative working, etc. as evidenced through reports on means of working, etc.?
4. **Presentation Quality (20%):** Is the report well written, clearly and concisely communicating the team's intent? Are figures, tables, diagrams, etc., used effectively? Is the report structured in helpful way (to ease comprehension) and consistently formatted.

Normally the mark awarded to a team will also be the mark awarded to each member of that team. However, the Board of Examiners may approve an uneven distribution of marks to team members if there is evidence of an uneven contribution of effort by them.