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##### School of Computer of Science

##### ASSIGNMENT BRIEFING SHEET (2018/19 Academic Year)

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| **Assignment Title** | Autonomous Reliable Car | **Submission Date** | 23.11.2018 |
|  |  |  |  |
| **Module Title** | Embedded Systems Development | **Module**  **Code** | 6COM1043 |

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| **Tutor** | **Raimund Kirner, Colin Egan** | **GROUP or INDIVIDUAL Assignment** | ***Individual report (SW in Groups of 1-3)*** |

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| **FOR INDIVIDUAL ASSIGNMENTS – *STUDENT TO COMPLETE***   |  | | --- | | **(Comments on this assignment by students can be made on the back of the assignment briefing sheet).**  By completing **BOX A** below, I certify that thesubmitted work is entirely mine and that any material derived or quoted from the published or unpublished work of other persons has been duly acknowledged. **[ref. UPR AS12, section 7 and UPR AS14 (Appendix III)].** I also certify, that any work with human participants has been carried out under an approved ethics protocol in accordance with UPR RE01.  *Please print your forename and surname in capitals and provide your ID (srn) number.* |   **BOX A**   |  |  |  |  | | --- | --- | --- | --- | | **Student Forename**  *(in CAPS please)* | **Student Surname**  *(in CAPS please)* | **Student ID Number (SRN)** | **Signature of Student** | |  |  |  |  | |

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| **FOR ADDITIONAL GROUP MEMBERS - *STUDENTS TO COMPLETE***   |  |  |  | | --- | --- | --- | | ***Group Name/Number (if allocated by module team****)* |  |  |  |  | | --- | | **(Student comments on this assignment can be made on the back of the assignment briefing sheet)**  By completing **BOX B** below, we certify that the submission is entirely ours and that any material derived or quoted from the published or unpublished work of other persons has been duly acknowledged. **[ref. UPR AS/C/6.1, section 7 and UPR AS/C/5 (Appendix III)].****)].** We also certify, that any work with human participants has been carried out under an approved ethics protocol in accordance with UPR RE01  *Please print your forenames and surnames in capitals, provide your; - ID numbers, actual time spent on the assignment and your signatures. By signing the submission you certify that this work represents equal contributions from all team members.* *If this is not the case, the module leader* ***must*** *be informed before submission.* |   **BOX B**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Student Forename *(in CAPS please)* | Student Surname *(in CAPS please)* | Student ID Number (SRN) | Actual Time Spent by each Student (hours) | Signature of Student | | MD Mohidul | Hasan | 15071717 | 30.00 | M.H | | Maryam | Ateeq | 16000922 | 30.00 | M.A | | Callum | Parry | 15037085 | 30.00 | C.P | |  |  |  |  |  | |  |  |  |  |  | |

**This sheet must be submitted with the assignment, signed and either BOX A or B filled in.**

**LATE SUBMISSION WILL ATTRACT A STANDARD LATENESS PENALTY.**

1. For undergraduate modules, a score of 40% or above represents a pass mark.
2. For postgraduate modules, a score of 50% or above represents a pass mark.
3. For work submitted up to 5 working days late marked is capped to a bare pass (40% for undergraduate and 50% for postgraduate).
4. For work submitted more than 5 working days a mark of zero will be awarded for the assignment.

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| **THE ASSIGNMENT TASK:**  Software development for embedded systems, see attachment Description ESD CW1. |
| **MODULE LEARNING OUTCOMES ASSESSED BY THIS ASSIGNMENT:**  Knowledge and Understanding:  Successful students will typically have a knowledge and understanding of:  LO1 - requirements and design techniques for dependable real-time computing  LO2 - techniques to analyse resource-requirements of embedded systems  Skills and Attributes:  Successful students will typically be able:  LO3 - to develop software for an embedded platform  LO4 - to specify design solutions to ensure fulfilling the resource and dependability requirements of an embedded system |
| **SUBMISSION REQUIREMENTS:**  The assignment report of each group member has to be submitted individually on StudyNet by **3pm** on the day of the submission deadline.  Each group member has to write and individual report in their own words, however the attached corresponding software can be product of a group collaboration, with other group members named on front page. An electronic copy of your program files has to be included in the submission as a .zip file with name ESD-<GRP-Name>-<Report-Author>-SW.zip . |
| **FEEDBACK FROM THIS ASSIGNMENT**  Feedback will be provided during scheduled class and tutorial sessions, via email and by appointment out of class. There will be the opportunity to submit draft reports to tutors for early feedback prior to final submission. |
| **MARKS AWARDED FOR:**  This coursework consists of a prototype implementation which can be done in group work, an individual report for each group member, and also a practical demonstration, with questions related to the understanding of the report and prototype.  A. Report and Prototype  The report is composed of three different topics, which are equally weighted. See the task description for further details. Besides the technical realisation, also clearness and presentation of your results in the report are evaluated. The report has to be maximally two pages long.  B. Demonstration   |  |  |  |  | | --- | --- | --- | --- | | **2** | **3** | **4** | **5** | | Did not attend or answered all questions poorly | All but the simplest questions answered badly | Straightforward questions answered correctly | Answered challenging questions well |   C. Calculating your final score for this assignment  Final Score = Report\_and\_Prototype\_Score x (Demonstration\_Score / 5) |

### DEADLINES AND ASSIGNMENT WEIGHTINGS

|  |  |  |  |  |  |  |  |  |
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| 1 | This assignment is worth | | 30% | | of the **overall assessment** for this module. | | | |
|  |  | |  | |  | | | |
| 2 | You are expected to spend about | | | *30* | | Hours to complete this assignment to a satisfactory standard | | |
|  |  | | |  | |  | | |
| 3 | Date assignment set | 15.10.2018 | | | | Date completed assignment to be handed in | 23.11.2018 | |
|  |  |  | | | |  |  | |
| 4 | Target date for return of marked assignment | | | | | 03.12.2018 |  |  |

**INTERNAL MODERATION**

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| This assignment has been internally moderated.  I confirm:   * That the assignment set, meets the requirements of the module and that the brief provides appropriate content for students to successfully complete the assignment. * That the assessment is at an appropriate level and matches QAA level descriptors and is an appropriate form of assessment within the total range of assessments for this module. * That the marking scheme is attached and that students can determine how marks are allocated. * That this assessment can be completed **and** marked within University timeframes, and provides detailed feedback (more than just a grade) that supports learning.   . | ***Moderator name, signature and date*** |