

DESN2000 (Computer Engineering) 2025 T2: Assessment Guide
Project Documentation (10% of the total grade)

Last edited: 26/06/2025

There will be two submissions, namely, the project user guide and the project developer guide. For each submission, only one member of the group should do the submission. There will also be a form that every one of you must fill out indicating the **contribution made by each member of the group towards the documentation.**

Demonstrators will mark the submissions, and the individual marks will be scaled based on the information in the contribution forms. A plagiarism check will be conducted through Turnitin and may result in a mark of 0 in case plagiarism is detected.

**Deadline for the submissions and completing the contribution form:
11:59 PM, Friday (Week 10)**

*individual mark = contribution_factor * (user_guide_mark + developer_guide_mark),*

where,

*contribution_factor = (average percentage assigned to the individual) * (no. of group members in the group) / 100*

See below for the marking table of *user_guide_mark* and *developer_guide_mark*.

Project User Guide

The user guide is a critical component of any project, as it provides instructions for the user to set up, operate, and troubleshoot independently, without assistance from the development team. The guide should be comprehensive, clear, and easy to follow, and should include step-by-step instructions for all key functions. The guide should be presented in PDF format, but you may also include additional resources, such as videos or diagrams, to enhance clarity and ease of use.

The user guide will be marked from the perspective of a user with limited technical knowledge of embedded systems. What we are looking for in a good quality user guide is the following:

- **Completeness:** All subsystems are clearly explained in a way that is relevant to the user
- **Figures:** Great sketches/figures that help illustrate the working of your product
- **Accessibility:** It is deemed that a layman can pick up the user manual and read and understand everything without the need for technical knowledge.

Marks will be awarded as per the table below:

0	None submitted or nearly empty submission
1	The user guide is only partially complete and the user is likely to get lost in most of the scenarios
2	The user guide is only half done and the user is likely to get lost half of the time
3	Quality is good, however, requires considerable improvements to reach the quality of a near-perfect user manual
4	Quality is good and only minor improvements are sufficient to reach the quality of a near-perfect user manual.
5	Quality is close to that of a user manual of a commercial product. The user manual is outstanding, well-structured, complete and clear. Figures have been used for better illustrations where applicable.

Project Developer Guide:

The developer guide is an essential document that describes the design of your code for future developers who may need to extend, optimise, or fix bugs in the codebase. It should clearly indicate the mapping of components in the source code to the design components. You are expected to create the developer guide in markdown format (<https://www.markdownguide.org/getting-started>) and store it in the same GitHub/GitLab repository as your code.

The developer guide will be marked from the perspective of a future developer who has taken over the project after you completed the prototype development.

What we are looking for in a good quality developer guide is as below:

- Completeness: Every functionality in the system and subsystems are covered outlining how they integrate.
- Figures: Use of appropriate figures to demonstrate the working of the systems and subsystems. Focus on clarity of figures, labelling and integration with the text.
- Conciseness: It dives deep enough in the technical aspect/coding relevant to the developer, but not too deep to the detriment of the reader (developers are human as well, after all)

Marks will be awarded as per the table below:

0	None submitted or nearly empty submission
1	Some effort has been made; however, figuring out the code is not made much easier with this developer guide
2	Half done and half of the details are missing. It would require a substantial rewrite of the manual to be deemed more useful.
3	Good quality, however, there are a few ambiguous places that may require setting up a meeting with the developers to figure out.

4	Very high quality. Only some minor unclear places and a short email conversation with the developers will be adequate to clarify any ambiguities.
5	Outstanding quality. Understood everything about the implementation and no need to contact the developers for any clarification.