

## ADA Project H2024

Create a real-time system programmed in ADA using a Microbit v2 board, with associated sensors and using the Mecanum car.

A prototype must be made. Write a project report which describes the project in detail. The project report should be written using LaTeX, use Overleaf (<https://www.overleaf.com/>), an online LaTeX editor that's easy to use.

The project report should have a front page with the name of the project and the members of the project group, and follow a usual project template, e.g. [IMRad Report Format.pdf](#)

Example template for the project: [Zip-file \(LaTeX\)](#) [Last ned Zip-file \(LaTeX\)](#), [pdf](#)

A good report should contain everything that is needed to explain the goals and workings of your real-time embedded system, proof that it can meet the deadlines (eg. by using response time analysis), brief explanation of any theory (eg. how a particular sensor physically works and how you implemented that on the micro:bit v2 using ADA) , include all ADA code and a small project management evaluation of your process (eg. describe teamwork, your responsibilities, planning, intermediate results, etc) to get to the final results. The link to GitHub repository should also be provided.

Don't write a large report, between 15-20 pages is enough. You can use Norwegian or English as language.

The essential ADA code of your project should be included in the attachment, and it is not included in the total page count.