

Laptop requirements mechatronics

During your studie you will use many different programs, such as LabView, SolidWorks, Matlab, and 20-sim. You will need a laptop that runs these programs well. This recommendation is based on buying using the laptop for the approximately 4 years that your study takes, including software updates.

Most likely the most demanding program you will be running will be SolidWorks. For this we recommend the following specifications:

- **Operating system:** Windows 11. MacOS (Apple) is not supported.
- **Memory:** Minimum 16 gigabytes, 32 gigabytes recommended.
- **Storage:** Minimum 10 gigabytes storage space, and 20 gigabytes of free space. Preferably an SSD-drive.
- **Videocard:** A discrete video is highly recommended. The larger the 3D models you design the stronger the needed card. The SolidWorks website mentions the following: *“Depending on budget constraints, it would be better suited to use a low to mid-range graphics card and spend more on the CPU and SSD drives.”*
- **Internet connectivity:** For downloading and updating SolidWorks is a high speed internet connection recommended. Saxion offers free onsite wireless internet called eduroam.

The full requirements can be found on the following site: [System requirements solid works](#). Also SolidWorks is much easier to control using a mouse. This mouse should have a left and right mouse button, and a scroll wheel that can also be used as a button.

Besides solidworks you will be using CODESYS. With CODESYS you will control and program various PLC's. To connect to these PLC's you will need an ethernet connection. If your laptop does not have a build in ethernet connection you will need to buy one. They are many different ones available, also ones that connect through USB. Before buying your laptop check if there are any compatible versions available and order one.