

SYSTEEMVEREISTEN TECHNICUS ENGINEERING

(Bergen op Zoom)

BOL-4

Beste student,

Binnen Curio, sector Techniek en technologie voor de opleidingen Technicus Engineering en Verspaningstechnoloog, maken we zo veel mogelijk gebruik van digitale leermiddelen. Dit betekent dat je een laptop nodig hebt om onderwijs te kunnen volgen.

De laptop moet aan minimaal de volgende specificaties voldoen:

Operating System	Windows 10 – 64 Bits Professional of Enterprise	GEEN HOME EDITION !
Hardware		
Processor	3.3 GHz of hoger	*1
RAM	16 GB of meer	*2
Grafische Kaart	https://www.solidworks.com/support/hardware-certification/	*3
Drives	SSD geadviseerd voor optimale prestaties Minimaal 500 GB (eventueel een combinatie van SSD (min. 256 GB) met HD. Geïnstalleerd voor dataopslag op de HD)	
SOFTWARE		
SolidWorks 2020-2021	Studenten versie	Wordt door school verstrekt (niet zelf aanschaffen)
EPlan	Studenten licentie	Wordt door school verstrekt (niet zelf aanschaffen)
Microsoft Office	64-Bit	Kan gratis via school verkregen worden.
GXIEC Developer		Wordt door school verstrekt (niet zelf aanschaffen)
FluidSim		Wordt door school verstrekt (niet zelf aanschaffen)

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*1

SOLIDWORKS runs on Intel or AMD based systems.

The rebuild process in SOLIDWORKS is inherently linear (parent/child relationship of features) and therefore can only use a single core. Therefore rebuild performance can be increased by having a faster clock speed of the CPU.

Some functionality can leverage multi-thread technology and share the workload over multiple processor cores. Products like SOLIDWORKS Simulation and PhotoView 360 can take advantage of multi-threading, as can other areas like the user interface activities. Therefore having more processor cores can improve performance in these scenarios.

*2

The minimum requirement of RAM indicated on the [SOLIDWORKS System Requirements page](#) is at least 16GB. However larger models and simulation studies may require more memory. To avoid running out of memory for growing models, consider installing 32GB. It's best to split this between fewer memory chips to leave room for possible expansion in the future, for example install two 16 GB memory chips.

*3

The NVIDIA Quadro, AMD FirePro or AMD Radeon Pro WX series are certified graphics cards for SOLIDWORKS. A graphics card with hardware OpenGL acceleration will provide superior performance and stability, especially in 3D model viewing (refresh, rotate, zoom, pan).

The NVIDIA Quadro P, GP, GV and RTX series are the latest to be released

The AMD Radeon Pro WX series are the latest versions

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. The low-end of the Quadro P/RTX series and Radeon Pro WX series may provide sufficient performance for your models, though increasing model complexity and very large assemblies could require more processing power. If your models rotate/zoom in a reasonable timeframe, upgrading to a higher series of card won't seem much different.

Video cards designed for "gaming" or multi-media applications, such as **NVIDIA GeForce or AMD Radeon cards**, **do NOT** offer performance or stability for SOLIDWORKS. Game/multi-media cards are optimized for a low number of polygons displayed on the screen, but at a high frame rate. CAD applications have the opposite requirement, where polygon count is high (the detail in your design model) but the image does not change rapidly so high frame rates are not as critical. Using a certified graphics card and driver combo will yield the most stable platform for running SOLIDWORKS.

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Gecertificeerde grafische kaarten zijn:

MxGPU	Quadro P5000	Radeon Pro WX 4170
Quadro M1000M	Quadro P520	Radeon Pro WX 5100
Quadro M1200	Quadro P5200	Radeon Pro WX 7100
Quadro M2000	Quadro P600	Radeon Pro WX 7130
Quadro M2200	Quadro P6000	Radeon Pro WX 8200
Quadro M4000	Quadro P620	Radeon Pro WX 9100
Quadro M5000	Quadro RTX3000	
Quadro M6000	Quadro RTX4000	
Quadro M600M	Quadro RTX5000	
Quadro M620	Quadro RTX6000/RTX8000	
Quadro P1000	Quadro T1000	
Quadro P2000	Quadro T2000	
Quadro P2200	Radeon Pro W5500	
Quadro P3000	Radeon Pro W5700	
Quadro P3200	Radeon Pro WX 2100	
Quadro P400	Radeon Pro WX 3100	
Quadro P4000	Radeon Pro WX 3200	
Quadro P4200	Radeon Pro WX 4100	
Quadro P500	Radeon Pro WX 4130/4150	