

## PLTW Engineering Device Specifications:

Specification	Minimum	Recommended
Processor	Intel® processor 2.0 Ghz or greater	Intel® Xeon® I5 or i7 processor 3.0 Ghz or greater
RAM	8 GB +	16 GB +
Hard Drive	500 GB +	1 TB +
Video Card	512 MB + dedicated RAM, Microsoft® Direct3D 10® capable graphics card or higher supporting 1280 x 1024 screen resolution*	1 GB + dedicated RAM, Microsoft® Direct3D 11® capable graphics card or higher supporting 1280 x 1024 screen resolution*
Optical Drive	Not required for PLTW Software	Not required for PLTW Software
Operating System	Minimum Windows 7 or Windows 8.1, 64 bit operating system or Apple device with OSX 10.9 +. Bootcamp required with one of the above	Minimum Windows 7 or Windows 8.1, 64 bit operating system or Apple device with OSX 10.11+. Bootcamp required with one of the above Windows operating systems.
Network	Must have network connectivity (wireless and/or wired)	Must have network connectivity (wireless and/or wired)
<a href="#">Other Basic Software</a>	Internet Explorer 9 or later Current version of Firefox or Chrome is recommended for optimal utilization of the PLTW Learning Management System (LMS) Adobe Flash Player 15 or later Microsoft Office, v. 2007 through 2013 or Office 365 E3 version only, for iComponents, thread customization, and spreadsheet-driven designs	Internet Explorer 9 or later Current version of Firefox or Chrome is recommended for optimal utilization of the PLTW Learning Management System (LMS) Adobe Flash Player 15 or later Microsoft Office, v. 2007 through 2013 or Office 365 E3 version only, for iComponents, thread customization, and spreadsheet-driven designs

**\*IMPORTANT:** Basic Intel graphic chipset or other chipsets with shared memory should not be used for video display. See the Autodesk certified graphics hardware page [here](#) as reference tool in selecting graphics hardware.