Team Brocculee
Amanda Brucculeri and sidekick Chicky Wingy
Vivien Li and sidekick Snail
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IntroCS pd5
Spring 2020
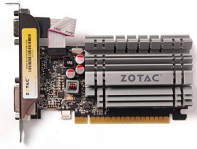
00. Architect

Tyrone is an architect. He is currently working with a computer that runs autoCAD 2017; however, he wants to purchase and run AutoCAD 2020. Tyrone needs you to design a new computer to make his designs come to life.

Tyrone does not want to spend more than $3,000 (including peripherals, but not software)

https://knowledge.autodesk.com/support/autocad/learn-explore/caas/sfdcarticles/sfdcarticles/System-requirements-for-AutoCAD-2020-including-Specialized-Toolsets.html

Operating System	Microsoft® Windows® 7 SP1 with Update KB4019990 (64-bit only) Microsoft Windows 8.1 with Update KB2919355 (64-bit only) Microsoft Windows 10 (64-bit only) (version 1803 or higher)
Processor	Basic: 2.5–2.9 GHz processor Recommended: 3+ GHz processor Multiple processors: Supported by the application
Memory	Basic: 8 GB Recommended: 16 GB
Display Resolution	Conventional Displays: 1920 x 1080 with True Color High Resolution & 4K Displays: Resolutions up to 3840 x 2160 supported on Windows 10, 64-bit systems (with capable display card)
Display Card	Basic: 1 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant Recommended: 4 GB GPU with 106 GB/s Bandwidth and DirectX 11 compliant
Disk Space	6.0 GB

Part	Name of Part	Cost	Description	Image
CPU	Intel Xeon E3-1220 3.1 GHZ Quad-Core Processor	$180.00	Autocad 2020 recommends a 3+ GHZ processor and this CPU provides just that. It also includes a cpu cooler.	
Motherboard	MSI B75MA-P33 Micro ATX LGA1155 Motherboard	$239.95	This motherboard is a good price. It also has 2 DDR3 memory slots to holds the 16 GB of RAM that we have.	
Memory	Patriot Viper 3 16 GB (2 x 8 GB) DDR3-1600 Memory	$67.99	We decided to have 16 GB of RAM, which is the recommended amount of RAM to run AutoCAD.	
Storage	Western Digital Caviar Green 500 GB 3.5" 5400RPM Internal Hard Drive	$15.99	This HDD has a capacity of 500 GB. According to reviews, it is fast for its price. An architect needs a lot of storage to hold projects and plans on.	
Video Card	Zotac GeForce GT 730 4 GB Video Card	$79.99	This video card will allow the display to be high resolution. It is DirectX 11 compliant and 4 GB.	
Case	Apevia X-Pioneer ATX Mid Tower Case	$59.99	The mid tower case will be able to fit everything within it. It also has a window so you can see the parts. It is white to match the white of the keyboard and the mouse.	

Power Supply	EVGA SuperNOVA G3 650 W 80+ Gold Certified Fully Modular ATX Power Supply	$64.98	This is RGB so it's really pretty. Having a 80+ Gold rating this is relatively efficient. The 650W will be able to provide enough power for the hardware.	
Operating System	Microsoft Windows 10 Home OEM 64-bit	$109.99	Autocad needs a 64-bit OS in order to run and operates on microsoft 10, 7 or 8.1	
Monitor	Samsung U28E590D 28.0" 3840x2160 60 Hz Monitor	$299.99	A big monitor, like this one, is extremely important for an architect to have. It allows the user to clearly see their plans and prints, giving them a clear view of what they have created. With this monitor, AutoCAD will be in high resolution in 4K.	
Mouse	Logitech G203 PRODIGY Wired Optical Mouse	$33.48	A mouse is extremely important to have when using software like AutoCad. It makes designing blueprints and build plans easy, as your hand is free to move around.	
Keyboard	EagleTec KG011 Wired Gaming Keyboard	$43.99	A keyboard would be very useful when using AutoCAD because it allows you to use keyboard shortcuts which makes it more convenient. Matches the mouse.	

Total: **$1193.34**

Websites used:

https://solidlystated.com/hardware/list-of-directx-12-and-directx-11-compatible-video-cards/