

Assessment 1

by Connor Thomas

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CYBER RISK AND COMPUTER SYSTEM DESIGN

LEVEL 4 ASSESSMENT

Abstract

This assessment designs a custom desktop workstation for engineering design, simulation, and remote collaboration, and evaluates cybersecurity risks in a manufacturing organisation. It prioritizes key vulnerabilities and proposes a comprehensive mitigation and incident response strategy to improve system security and operational continuity.

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Task 1 – Custom Desktop Computer System Design

System Specification and Justification



Table 1 PC PARTS



Component Type	Component Name	Price of component (£)
Central processing unit (CPU)	AMD Ryzen 7 7700	230
Motherboard	ASUS TUF Gaming B850-PLUS Wi-Fi	240
CPU Cooler	Arctic Liquid Freezer III 240mm AIO	70
Graphic processing unit (GPU)	Gigabyte GAMING OC Rev 2.0 RTX 3060 12GB	260
Random access memory (RAM)	Corsair Vengeance 32GB (2×16GB) DDR5-6000 CL30	120
Storage 1	Samsung 980 500GB NVMe SSD	40
Storage 2	Seagate Barracuda 2TB 7200RPM HDD	45
Power supply (PSU)	Corsair RM750e (2025), 750W	80
Case	Montech XR ATX Mid-Tower	50
Monitor	ASUS TUF VG249QE5A, 24" IPS	72
Keyboard	Corsair 4-in-1 Gaming Bundle (2025)	90
Mouse	Corsair 4-in-1 Gaming Bundle (2025)	N/A
webcam	Logitech C920	42
Operating system (OS)	Windows 11 Pro	20
TOTAL COST (£)=		1359

CPU Selection

1 AMD CPU R7 7700



<https://www.custompc.com/amd-ryzen-7-7700-review>

The AMD Ryzen 7 7700 was picked for this workstation because it has great single-core speed and a good balance of multi-core performance. This is very important for electrical engineering work. PSpice and LabVIEW both benefit from multi-threading when simulating and processing data. On the other hand, SolidWorks Electrical needs great single-thread performance to make navigation and drawing activities smooth. The Ryzen 7 7700 has 8 cores and 16 threads, which means it can handle multitasking without getting too hot. The AM5 platform also has a strong upgrade path for the next CPU.

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Motherboard Selection

2 ASUS TUF GAMING B850-PLUS WIFI



Why this motherboard was chosen

It offers excellent connectivity, strong power delivery, and long-term AM5 upgrade support, making it ideal for an engineering workstation that must remain reliable and future-proof.

Feature	Specification
Chipset	AMD B850
Form Factor	ATX
Socket	AM5
Memory Support	DDR5, up to 192GB
Expansion	PCIe 5.0 ×16 slot, PCIe 4.0 slots
Storage	Multiple M.2 NVMe slots (PCIe 4.0/5.0)
Networking	WiFi 6E + 2.5Gb Ethernet
Rear I/O	USB-C, USB 3.2 ports, HDMI/DP (for APUs)

Cooling Solution

3 Arctic Liquid Freezer III High Performance All In One CPU Cooler



<https://www.overclockers.co.uk/arctic-liquid-freezer-iii-high-performance-all-in-one-cpu-cooler-240mm-coo-arc-01985.html>

Why this cooler was chosen



It delivers excellent cooling performance with low noise, ensuring stable CPU temperatures during long simulation or engineering workloads while providing future upgrade headroom.

Feature	Specification
Cooler Type	All-in-One Liquid Cooler
Radiator Size	240mm
Fan Configuration	Dual 120mm fans
Compatibility	AM5
Pump Design	Efficient, low-noise pump
Thermal Performance	High cooling capacity for sustained workloads
Installation	Supports top or front radiator mounting



Graphics Card (GPU) Selection

4 GeForce RTX™ 3060 GAMING OC 12G



12

<https://www.gigabyte.com/uk/Graphics-Card/GV-N3060GAMING-OC-12GD-rev-20>

Why this GPU was chosen

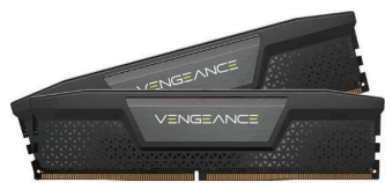
It provides excellent value, stable performance for CAD and engineering tasks, and enough VRAM for large drawings and multitasking, without the higher cost or power demands of higher-end GPUs.

Feature	Specification
Model	Gigabyte GeForce RTX 3060 GAMING OC
VRAM	12GB GDDR6
Core Clock	Factory overclocked (OC edition)
Cooling	Triple-fan WINDFORCE cooling system
Power Requirement	~170W (recommended PSU: 550W+)
Ports	HDMI, DisplayPort
Use Case	CAD acceleration, multi-monitor support, light 3D workloads

13

Memory (RAM) Selection

5 Corsair Vengeance DDR5



Why this RAM was chosen

It offers fast DDR5 performance, low latency, and sufficient capacity for running multiple engineering applications simultaneously without slowdowns.

Feature	Specification
Model	Corsair Vengeance DDR5
Capacity	32GB (2 × 16GB)
Speed	6000 MHz
Latency	CL30
Type	DDR5, Dual-Channel
Compatibility	AMD EXPO support (ideal for AM5 systems)
Use Case	Multitasking, simulations, CAD workloads

Storage Selection

6 Seagate BarraCuda 2TB, Internal Hard Drive, 3.5 Inch



7 Samsung 980 NVMe SSD



<https://www.seagate.com/gb/en/products/hard-drives/barracuda-2-5-hard-drive/>

<https://www.samsung.com/uk/memory-storage/nvme-ssd/980-1tb-nvme-pcie-gen-3-mz-v8v1t0bw/>



Why this storage setup was chosen

It combines fast SSD performance for daily tasks with large, affordable HDD capacity for engineering files, simulations, and backups.

Feature	Primary Drive	Secondary Drive
Model	Samsung 980 NVMe SSD	Seagate BarraCuda Compute
Capacity	500GB	2TB
Type	NVMe SSD (PCIe 3.0)	7200RPM HDD
Speed	Up to 3,500 MB/s read	Mechanical, suitable for bulk storage
Use Case	OS + applications	Project files, backups, large data
Reliability	High durability SSD	Long-term archival storage

Power Supply (PSU) Selection

8 CORSAIR RMe Series Fully Modular Low-Noise Power Supply



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<https://www.corsair.com/uk/en/p/psu/cp-9020295-uk/rme-series-rm750e-fully-modular-low-noise-atx-power-supply-uk-cp-9020295-uk>

Advantages

- Fully modular design improves airflow and cable management.
- 750W capacity provides strong headroom for future GPU upgrades.
- ATX 3.1 and PCIe 5.1 support ensure long-term compatibility.

Disadvantages

- More expensive than non-modular PSUs.
- Higher wattage than strictly necessary for current components.

Why this component was chosen

This PSU was selected for its reliability, efficiency, and future-proof power delivery for potential upgrades.

Case Selection

9 montech XR CASE



<https://www.montechpc.com/xr>

Advantages

- Good airflow and cooling support.
- Fits ATX boards and 240mm AIO.
- Clean internal layout.

Disadvantages

- Limited premium features.
- Cable management can be tighter than higher-end cases.

Why this component was chosen

This case was selected due to its strong airflow and compatibility at a reasonable price.

Monitor Selection

10 ASUS TUF VG249QE5A Full HD 24" IPS LCD Gaming Monitor



[https://www.currys.co.uk/products/asus-tuf-vg249qe5a-full-hd-24-ips-lcd-gaming-monitor-black-10289500.html?srcid=198&cmpid=ppc~gg~2053+\(Shopping+Ads\)+PC+Gaming+HW+-+SBRE+-+Pmax~~Exact~21275899394~&mctag=gg_goog_7904&kwid=GOOGLE&device=c&ds_kids=&tgtid=2053+\(Shopping+Ads\)+PC+Gaming+HW+-+SBRE+-+Pmax&gclsrc=aw.ds&&gad_source=1&gad_campaignid=21279918217&gbraid=0AAAAAD7JKSIEsoAkdoVEQjEVeasZW_Psz&gclid=CjwKCAiA86_JBhAlEiwA4i9Ju1GkkTLqLcRSEwFVqazryaQn-uOF3pLawNACyYTvvhFMwaEytQBdkBoCOdEQAvD_BwE](https://www.currys.co.uk/products/asus-tuf-vg249qe5a-full-hd-24-ips-lcd-gaming-monitor-black-10289500.html?srcid=198&cmpid=ppc~gg~2053+(Shopping+Ads)+PC+Gaming+HW+-+SBRE+-+Pmax~~Exact~21275899394~&mctag=gg_goog_7904&kwid=GOOGLE&device=c&ds_kids=&tgtid=2053+(Shopping+Ads)+PC+Gaming+HW+-+SBRE+-+Pmax&gclsrc=aw.ds&&gad_source=1&gad_campaignid=21279918217&gbraid=0AAAAAD7JKSIEsoAkdoVEQjEVeasZW_Psz&gclid=CjwKCAiA86_JBhAlEiwA4i9Ju1GkkTLqLcRSEwFVqazryaQn-uOF3pLawNACyYTvvhFMwaEytQBdkBoCOdEQAvD_BwE)

Why this monitor was chosen

It offers clear IPS image quality, a smooth viewing experience, and reliable everyday performance at an affordable price ideal for engineering work and general productivity.

Feature	Specification
Model	ASUS TUF VG249QE5A
Screen Size	24 inches
Resolution	1920 × 1080 (Full HD)
Panel Type	IPS
Refresh Rate	165Hz
Response Time	1ms
Ports	HDMI, DisplayPort
Adaptive Sync	FreeSync

Peripheral Input

11 CORSAIR 4 in 1 Gaming Bundle - 2025 Edition



[https://www.currys.co.uk/products/corsair-4-in-1-gaming-bundle-2025-edition-10266645.html?srcid=198&cmpid=ppc~gg~1016+\(Shopping+Ads\)+Gaming+Accessories+-+PMAX~~Exact~20655757123~&mctag=gg_goog_7904&kwid=GOOGLE&device=c&ds_kids=&tgtid=1016+\(Shopping+Ads\)+Gaming+Accessories+-+PMAX&gclsrc=aw.ds&&gad_source=1&gad_campaignid=20646252135&gbraid=0AAAAAD7JKSKLxd9WtW-lip9slodmj579p&gclid=CjwKCAiA86_JBhAlEiwA4i9JuxXgcGaEJ_727h1vHIT6MEekiCKMsRqMuqaNwFjEEjMaBClekKsKtxoC4FsQAvD_BwE](https://www.currys.co.uk/products/corsair-4-in-1-gaming-bundle-2025-edition-10266645.html?srcid=198&cmpid=ppc~gg~1016+(Shopping+Ads)+Gaming+Accessories+-+PMAX~~Exact~20655757123~&mctag=gg_goog_7904&kwid=GOOGLE&device=c&ds_kids=&tgtid=1016+(Shopping+Ads)+Gaming+Accessories+-+PMAX&gclsrc=aw.ds&&gad_source=1&gad_campaignid=20646252135&gbraid=0AAAAAD7JKSKLxd9WtW-lip9slodmj579p&gclid=CjwKCAiA86_JBhAlEiwA4i9JuxXgcGaEJ_727h1vHIT6MEekiCKMsRqMuqaNwFjEEjMaBClekKsKtxoC4FsQAvD_BwE)

Why this bundle was chosen

It provides all essential input devices in one affordable package, offering reliable everyday performance and good ergonomics suitable for engineering work and general productivity.

Item	Specification
18 Keyboard	Full-size membrane keyboard with RGB lighting
Mouse	Optical gaming mouse with adjustable DPI
Headset	Stereo headset with microphone
Mousepad	Standard desk-sized cloth pad
Connectivity	USB (wired)
Brand/Series	Corsair 4-in-1 Gaming Bundle (2025)

Webcam Selection

12 C920 HD Pro Webcam



<https://www.logitech.com/en-gb/shop/p/c920-pro-hd-webcam>

Why this webcam was chosen

It delivers clear 1080p video, reliable autofocus, and high-quality audio, making it ideal for remote meetings and engineering collaboration

Feature	Specification
Model	Logitech C920
Resolution	Full HD 1080p
FPS	30 frames per second
Microphone	Dual stereo mics
Field of View	78°
Connection	USB 2.0
Mounting	Universal monitor/laptop clip

Software and Security Tools

13 microsoft windows 11 pro



Why this OS was chosen

It offers strong built-in security, excellent stability, and full compatibility with engineering applications, making it ideal for a professional work-from-home workstation.

Feature	Specification
Edition	Windows 11 Pro
Security Features	BitLocker, Secure Boot, Windows Defender
Compatibility	Supports all required engineering software
Updates	Automatic security & feature updates
User Management	Enhanced admin tools and access control
Licensing	Single-device digital license

Cybersecurity Risk Assessment and Mitigation Strategy

Task 2.1: Find and Rate Cybersecurity Risks



Using outdated firewall rules and failing to separate corporate IT systems from operational technology (OT) systems on the network are two major cybersecurity risks [1]. This makes it easier for attackers to gain unauthorised access to networks and move throughout them, potentially causing production systems to fail and compromising their integrity and availability.

Another major risk is embedded devices with outdated firmware and default passwords [2]. These flaws make it easy for malware and password attacks to gain access to devices, giving hackers unauthorised control, the ability to change how the system works, or the ability to stop operations, which directly affects integrity and availability.

The company's global supply chain increases risk because some suppliers do not use secure development or validation methods. Systems may be compromised by introducing vulnerable or malicious components, putting the confidentiality of intellectual property and the security of critical systems at risk.

In addition, some engineering workstations run outdated operating systems that no longer receive security updates [3]. These systems are easy targets for malware, ransomware, and zero-day exploits, increasing the likelihood of data breaches and operational downtime.

Finally, employees who do not receive sufficient cybersecurity training are vulnerable to phishing attacks, increasing the risk of credential theft and malware spreading across systems.

Task 2.2: Prioritising Risks and Giving Reasons

Outdated operating systems and insecure embedded devices pose the greatest risk because they are easy to exploit and directly affect critical engineering and operational systems [4]. Poor network segmentation is also a significant risk, as it allows attackers to move between IT and OT environments. Medium-priority risks include insufficient employee training and supply chain vulnerabilities. Phishing attacks are common but usually have indirect impacts, while supply chain attacks are less likely but potentially severe. Risks are prioritised based on their likelihood and potential impact on operations and sensitive data.

Task 2.3: A Complete Cybersecurity Plan

A complete cybersecurity plan should include both technical and management controls. The company should use network segmentation to keep corporate and OT systems separate, and change firewall rules to block unauthorised traffic. Operating systems and embedded devices must support patch and firmware management, remove default passwords, and use strong authentication methods such as multi-factor authentication.

To reduce the risks of phishing and social engineering, managers should provide employees with training to help them recognise cybersecurity issues. Regular audits and risk assessments should be conducted to identify weaknesses early. The company should also put in place supply chain security policies that make sure suppliers meet at least the minimum cybersecurity standards. These steps together deal with weaknesses in technology, people, and organisations.

Task 2.4: Plan for Responding to Incidents

The incident response plan follows a defined lifecycle. Setting up an incident response team, defining roles, and training staff are all parts of preparation. Identification means finding suspicious activity and grouping incidents by severity. During containment, affected systems are kept separate from each other, and malicious traffic is blocked to prevent further spread. Getting rid of malware, fixing security holes, and installing patches are all part of eradication. During the recovery phase, systems are restored from backups and monitored to prevent re-infection. Finally, lessons learnt are documented so that policies can be improved and similar events avoided in the future.

Task 2.5—Best Practices and Standards for Cybersecurity

The proposed cybersecurity strategy aligns with ISO/IEC 27001, which focuses on risk-based information security management [6]. The identify, protect, detect, respond, and recover lifecycle follows the NIST Cybersecurity Framework [5]. IEC 62443 provides guidance for securing industrial automation and control systems and supports network segmentation in operational environments [7]. Aligning with these standards ensures the organisation follows recognised cybersecurity best practices.

In conclusion

The manufacturing company is at significant risk of cyberattacks because its systems are outdated, its embedded devices are insecure, its network design is weak, its supply chain is weak, and its employees are not well-trained. The organisation can protect its intellectual property, keep operations running smoothly, and safeguard customer data by focusing on the most serious risks and implementing a comprehensive cybersecurity strategy that includes a robust incident response plan and recognised standards.

References



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- [5] N. Mahn and A. Amy, "Identify, Protect, Detect, Respond and Recover: The NIST Cybersecurity Framework," *National Institute of Standards and Technology (NIST) Blog*, 2018. [Online]. Available: <https://www.nist.gov/blogs/taking-measure/identify-protect-detect-respond-and-recover-nist-cybersecurity-framework>
- [6] International Organization for Standardization, *ISO/IEC 27001:2022 — Information Security Management Systems*, 2022. [Online]. Available: <https://www.iso.org/standard/27001>
- [7] International Electrotechnical Commission, *IEC 62443: Cybersecurity Standards for Industrial Automation and Control Systems*, n.d. [Online]. Available: <https://amdt.com/en/resources/glossary/iec-62443>

Assessment 1

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

64/100

PAGE 1

PAGE 2



Comment 1

Good Work

PAGE 3



Comment 2

The introduction of a report is crucial as it sets the stage for the entire document. Introduction should include several key elements to ensure that the reader understands the purpose, scope, and structure of the report



Comment 3

It is better to number each heading

PAGE 4



Comment 4

It is better to add figure title for each figure Eg: Figure 1: [Brief Description of the figure] is appropriate and effectively communicates the content and purpose of the figure. It provides readers with a clear reference point, making it easier for them to navigate through the document and understand the significance of the visual representation.



Comment 5

Good work. However, it would be better to include a reference to support your claim. To justify why the selected processor is better than the alternatives, please include an appropriate reference as evidence.



Comment 6

It would have been better if page number has been included

PAGE 5



Comment 7

It is better to add figure title for each figure Eg: Figure 1: [Brief Description of the figure] is appropriate and effectively communicates the content and purpose of the figure. It provides readers with a clear reference point, making it easier for them to navigate through the document and understand the significance of the visual representation.



Comment 8

caption should be added for the table, so the reader will get an idea about the table

PAGE 6



Comment 9

It is better to add figure title for each figure Eg: Figure 1: [Brief Description of the figure] is appropriate and effectively communicates the content and purpose of the figure. It provides readers with a clear reference point, making it easier for them to navigate through the document and understand the significance of the visual representation.



Comment 10

Good work. However, it would be better to include a reference to support your claim. To justify why the selected processor is better than the alternatives, please include an appropriate reference as evidence.



Comment 11

caption should be added for the table, so the reader will get an idea about the table

PAGE 7



Comment 12

It is better to add figure title for each figure Eg: Figure 1: [Brief Description of the figure] is appropriate and effectively communicates the content and purpose of the figure. It provides readers with a clear reference point, making it easier for them to navigate through the document and understand the significance of the visual representation.



Comment 13

caption should be added for the table, so the reader will get an idea about the table

PAGE 8

PAGE 9



Comment 14

Line spacing between heading and para, between lines, between paragraphs should be uniform.



Comment 15

caption
should be added for the table, so the reader will get an idea about the table



Comment 16

The
font, font size, line spacing, spacing between paragraphs, spacing between
heading and paragraph should be uniform throughout the document.

PAGE 10



Comment 17

It is
better to add figure title for each figure Eg: Figure 1: [Brief Description of
the figure] is appropriate and effectively communicates the content and purpose
of the figure. It provides readers with a clear reference point, making it
easier for them to navigate through the document and understand the
significance of the visual representation.

PAGE 11

PAGE 12

PAGE 13



Comment 18

caption
should be added for the table, so the reader will get an idea about the table

PAGE 14



Comment 19

caption
should be added for the table, so the reader will get an idea about the table



Comment 20

caption
should be added for the table, so the reader will get an idea about the table



Comment 21

The introduction of a report is
crucial as it sets the stage for the entire document.



Comment 22

It would have been better if the risks are listed



Comment 23

It is advisable to include more
references from peer-reviewed journals, book and articles

GRADING FORM: CSF RUBRICS

CONNOR THOMAS

63.50

ENGAGEMENT WITH LITERATURE

The report should be supported by credible sources on cybersecurity and computer systems design in engineering. These may include academic journals, textbooks, official guidelines, and peer-reviewed or recognised online publications. Use of recent materials (from the past five years) on cybersecurity and hardware is encouraged. Proper referencing, with in-text citations and a reference list, is essential.



Engagement with a wide range of literature, including sources retrieved independently. Generally good referencing. Include more peer-reviewed or technical publications to enhance depth. It would have been better with more references for task 1. Consider expanding to a broader range of literature types.

6.1

KNOWLEDGE AND UNDERSTANDING

The report should demonstrate knowledge of key cybersecurity principles and hardware specifications relevant to the scenario. Understanding should be shown through explanations of how these principles apply to real-world situations, supporting a balanced approach to risk mitigation that protects data integrity, confidentiality, and availability.



Excellent understanding of concepts, insightful explanations and justifications, and the work is well-connected to theory. Demonstrates a solid understanding of hardware compatibility, application requirements, and security risks. It also includes real-world considerations, such as legacy compatibility, realistic training cycles, and varying levels of attack risk. The analysis would be even stronger with reference to cybersecurity

21.1

frameworks and more detailed explanations for hardware choices.

COGNITIVE AND INTELLECTUAL

The report must evaluate cybersecurity risks and hardware specifications relevant to the scenario, comparing alternatives and assessing cost-effectiveness. Logical reasoning and clear justification should support each decision, demonstrating a holistic and proportionate response to security risks.



The report provides a Sound evaluation of the underlying concepts and principles of Computer Systems and cyber security. Ability to devise arguments using evidence to make appropriate and valid judgements is evident from the description. It would have been better with justification using reference from peer reviewed journal. Cybersecurity prioritisation could benefit from a risk matrix to visually justify severity vs likelihood. The report demonstrates an understanding of cybersecurity risk mitigation and addresses several areas, including outdated systems, employee training, and incident response.

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PRACTICAL SKILLS

Practical application of theoretical knowledge is expected, with clear demonstrations of how hardware choices are suited to the given scenarios. Solutions should be realistic, feasible, and contextually appropriate, showing a direct link between theory and practical implementation.



There is a very good application of a range of taught basic methods, materials, tools, and techniques. The context of the application is well considered and insightful. Practical skill is evident through the careful selection of components for the computer. The PC build is technically sound, realistic, and well-costed.

However, the response would benefit from a clearer explanation of component compatibility. The design could also be improved by addressing potential future upgrades and system scalability, which are important for long-term usability.

TRANSFERABLE SKILLS FOR LIFE

The report should demonstrate professional communication and high-quality presentation, with well-organised sections, diagrams, and tables to convey technical content, as well as clarity and fluency in technical writing.



The report is well-structured with good coherence, contributing to a strong overall presentation. The quality is good, demonstrating effective transferable skills. Minor refinements such as ensuring proper text alignment, and polishing grammar, spelling, and phrasing would further enhance the professionalism of the report. Additionally, it would benefit from the appropriate placement of table captions, inclusion of page number and the introduction.