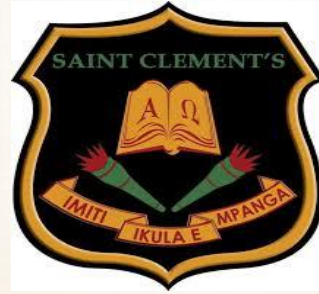


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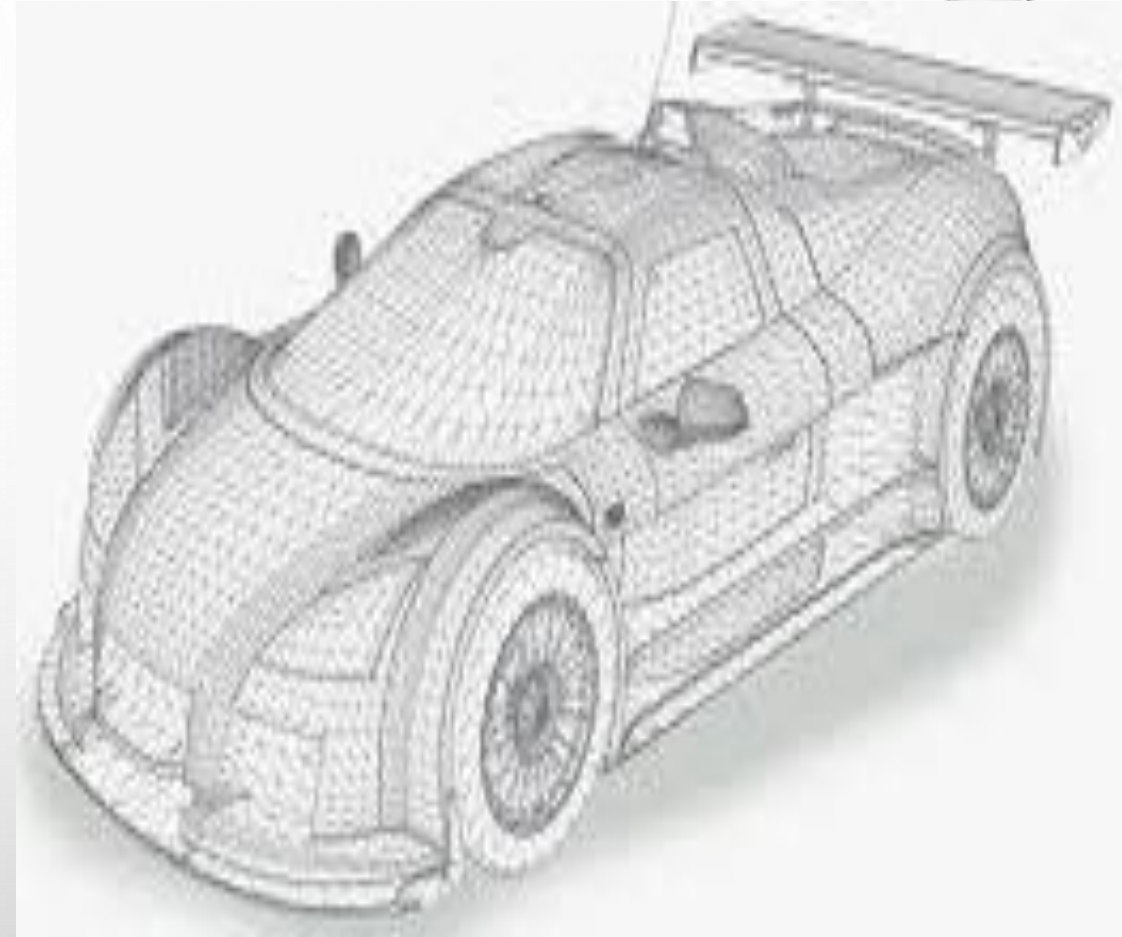
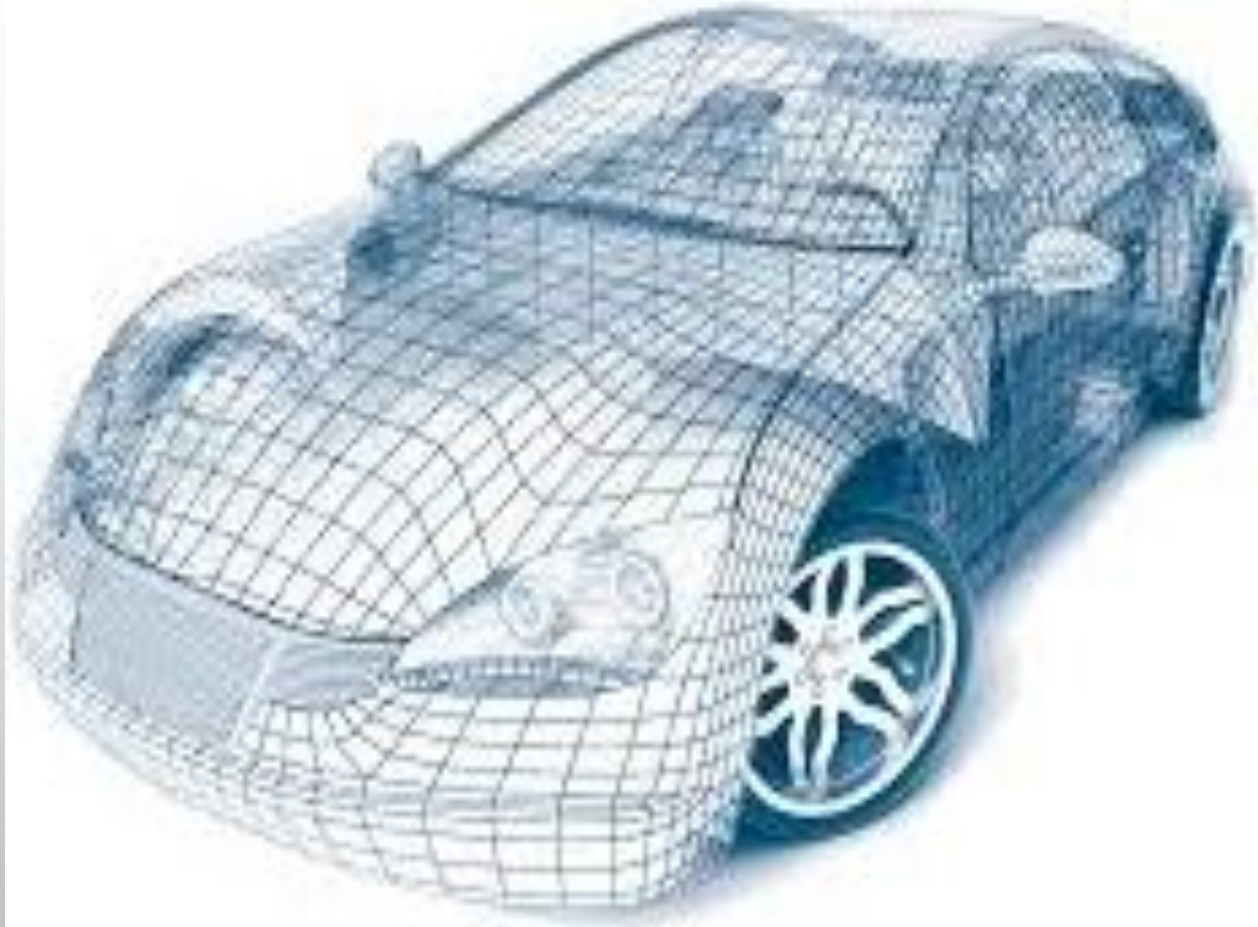


COMPUTER CAREER OPPORTUNITIES

SENIOR SECONDARY

GRADE 10

Engineering drawings generated by a computer



Career in Information and Communication Technology

Computer trainer/lecturer

- Trains people to use various software packages or how to become a computer programmer.

Helpdesk support

- Provide software support to users.

Computer Programmer/developer

- Writes new computer software.
- Are specialist such as **web developers** or **mobile applications developers**
- **Web developers** – design, create and maintain websites.
- **mobile applications developers** – design and create application for mobile phones and tablets

Computer Technician

- Assembles and repairs computers. This job focusses on the hardware aspect.

Network administrator

- Maintains and controls networks. e.g. troubleshoot network problems, provide support to the users on the network, add devices to the network, budget for and plan the expansion of the network.

Network Technician/engineer

- Designs network layout, installs and maintains network infrastructure,.

Security Consultant

- Designs and implements information **encryption** systems. **Encryption** is the process of protecting data by encoding it so that it cannot be read directly.
- Is also involved in protecting systems against hackers and computer viruses.
- Ensures the security of Wi-Fi systems.

System analyst

- Analyses and designs solutions for business, science, engineering and other computer systems.

Database engineer/developer

- Designs database systems
- Maintains database systems
- adapts database systems according to company's needs.
- Ensures the integrity and security of data.

Database administrator

- Captures and verifies the data stored in the database
- Write queries and reports to extract specific data from the system

Training opportunities

A Computerized Operating Theatre



Training opportunities

1. International Computer Driver's License (ICDL).

- This qualification needs to be completed through an accredited computer training center.
- It is an internationally recognized qualification in general computer usage.

2. Specialized Microsoft Office Training

- You can do specialized Microsoft Office Training in all the Microsoft application at a Microsoft-Certified training institution.

3. Microsoft Certified Solutions Expert (MCSE)

- This qualification will enable you to work quite widely in the computer field, providing solutions in terms of computer systems including cloud-based solutions.

4. Cisco Certified International Expert (CCIE)

- Network administrators are required to have MCSE.
- CCIE will enable them to work at higher level involving internet technologies.

5. Computer Science

- A computer programmer, computer gaming or web designer needs to study computer programming through a recognized training institute or obtain a Bachelor of Computer Science degree at a University.

6. International Certification

- Security professional
- Security intelligence
- Data encryption
- Information Management

EXERCISE

1. Complete the table below showing some of the careers in the ICT industry and their respective job descriptions.

Career in ICT	Job Description
Database administrator	
	Designs network layout
Computer Programmer	
	Designs and implements information encryption systems.

2. Which qualification do you require for each of the following

(a) Web Developer

(b) Network Administrator

3. What is the difference between a network Technician and a Network administrator.

Mario Makangha Chongo
BICTed