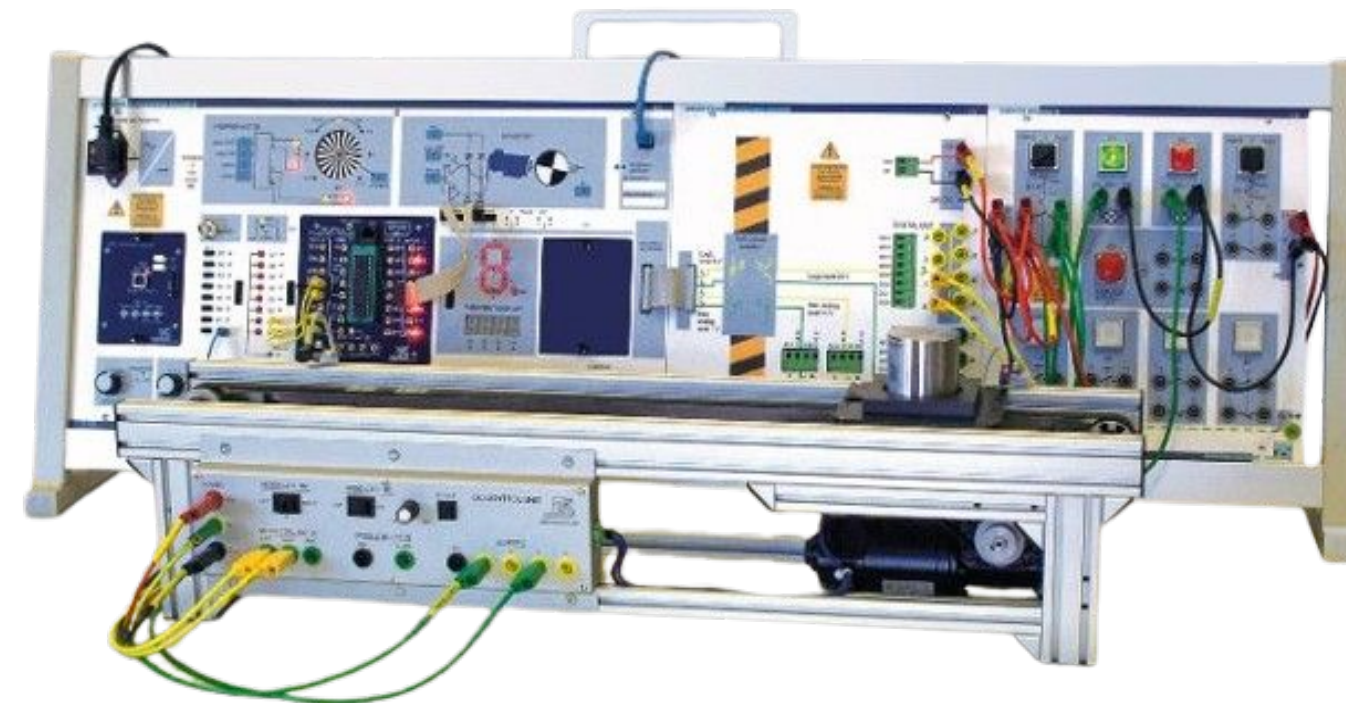


ASFAN International Trading Company



ASFAN

- How we are ?
- What's VR, AR, XR, Hologram?
- Case study for some VR Projects.
- 360 WebApp.
- FabLab.
- Engineering Lab.



Line Of Business

❖ VR, AR, XR, Hologram

- Civil Engineering VR Training Lab.
- Architectural Visualization.
- Medical VR Training.
- Virtual Reality in Education.
- Virtual Reality Heritage.
- Customized Projects

❖ 360 WebApp

❖ FabLab

- 3D Printer.
- 3D Scanner.
- CNC, Co2 Laser, Lathe Machine, Milling Machine.
- Robotics

❖ Engineering Lab

- Noorwood.
- ETS Didactic.
- Matrix.

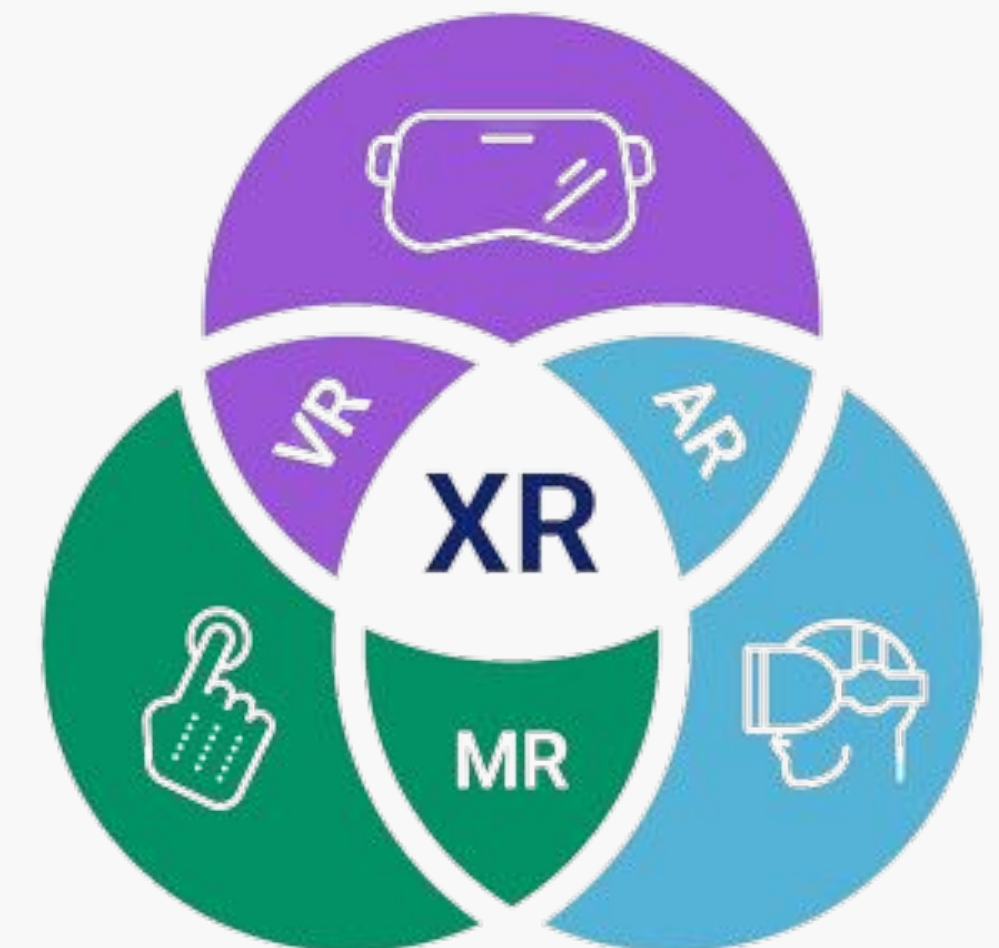


ASFAN

VR, AR, XR



- Virtual reality is a simulated 3D environment that enables users to explore and interact with a virtual surrounding.
- Augmented reality (AR) is an interactive experience that combines the real world and mobile-generated content.
- XR includes three primary elements VR, AR, and MR



VR Creation Tool



- VR Software for Business, Education, and Training.
- create all types of VR Experiences, From simple product visualization, all the way to advanced educational and vocational training sessions.



SimLab
S O F T



Civil Engineering VR Training Lab

Virtual Reality techniques are being used to develop educational models in the field of Civil Engineering. One of the labs is the Marshall test method.





Architectural Visualization VR

VR technology is an exciting tool for #architectural visualization (archviz), particularly for showcasing apartments and other residential buildings.





Medical VR Training

Simulating the surgical procedure before it is performed allows one to be aware of all the possibilities that may occur during the surgical procedure.





Virtual Reality in Education

Virtual reality technology enables students to immerse themselves in an interactive and realistic virtual environment.



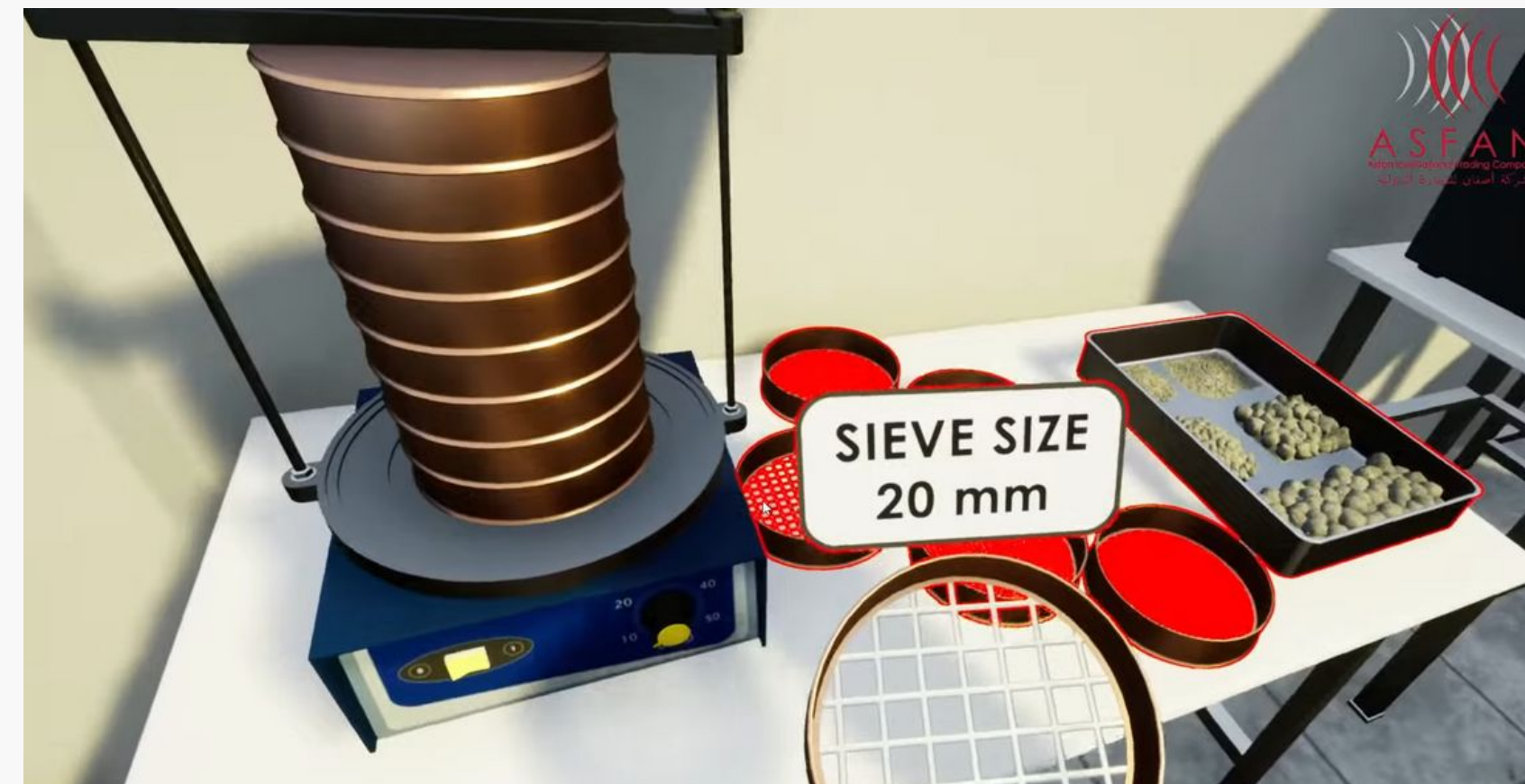
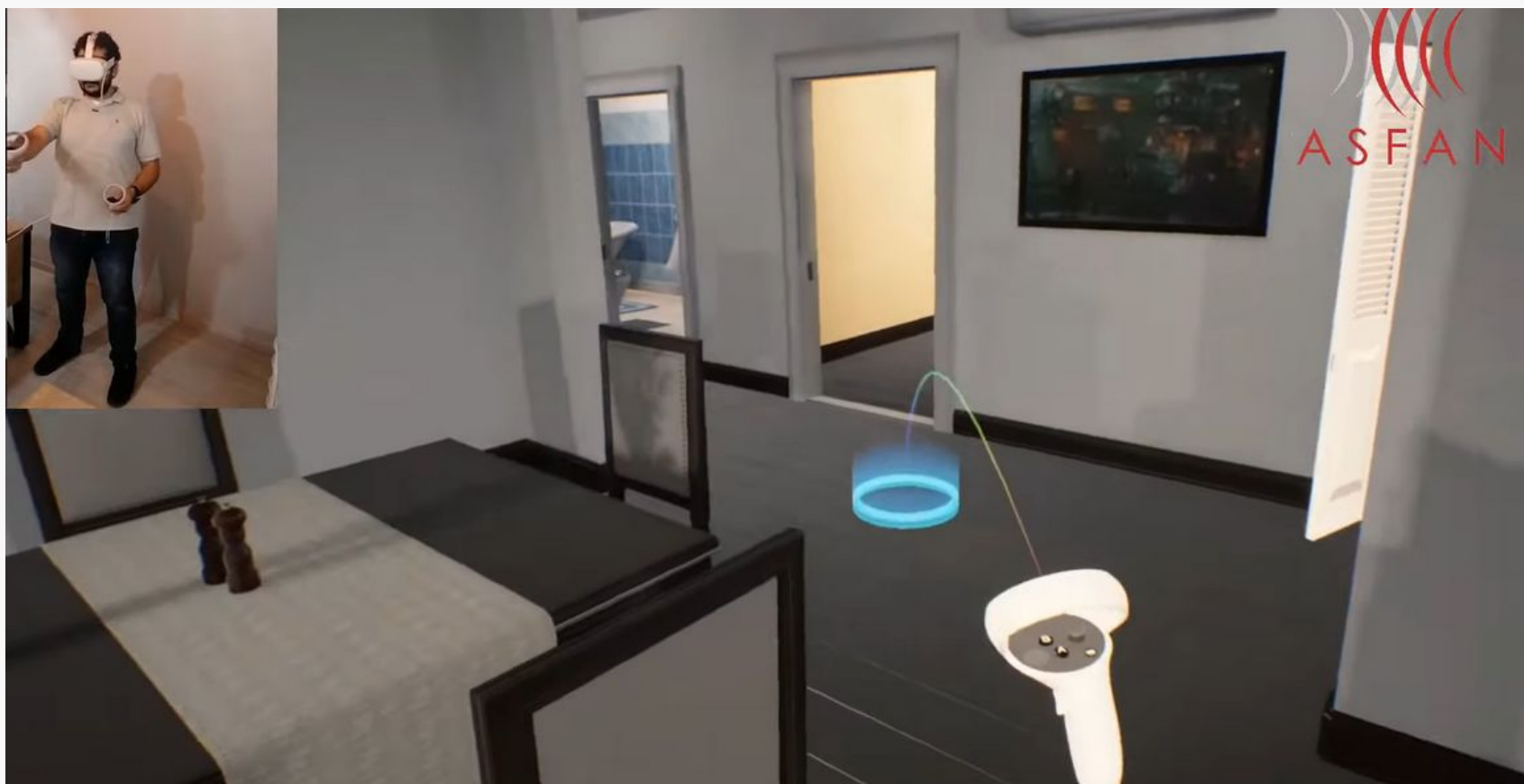


Virtual Reality Heritage

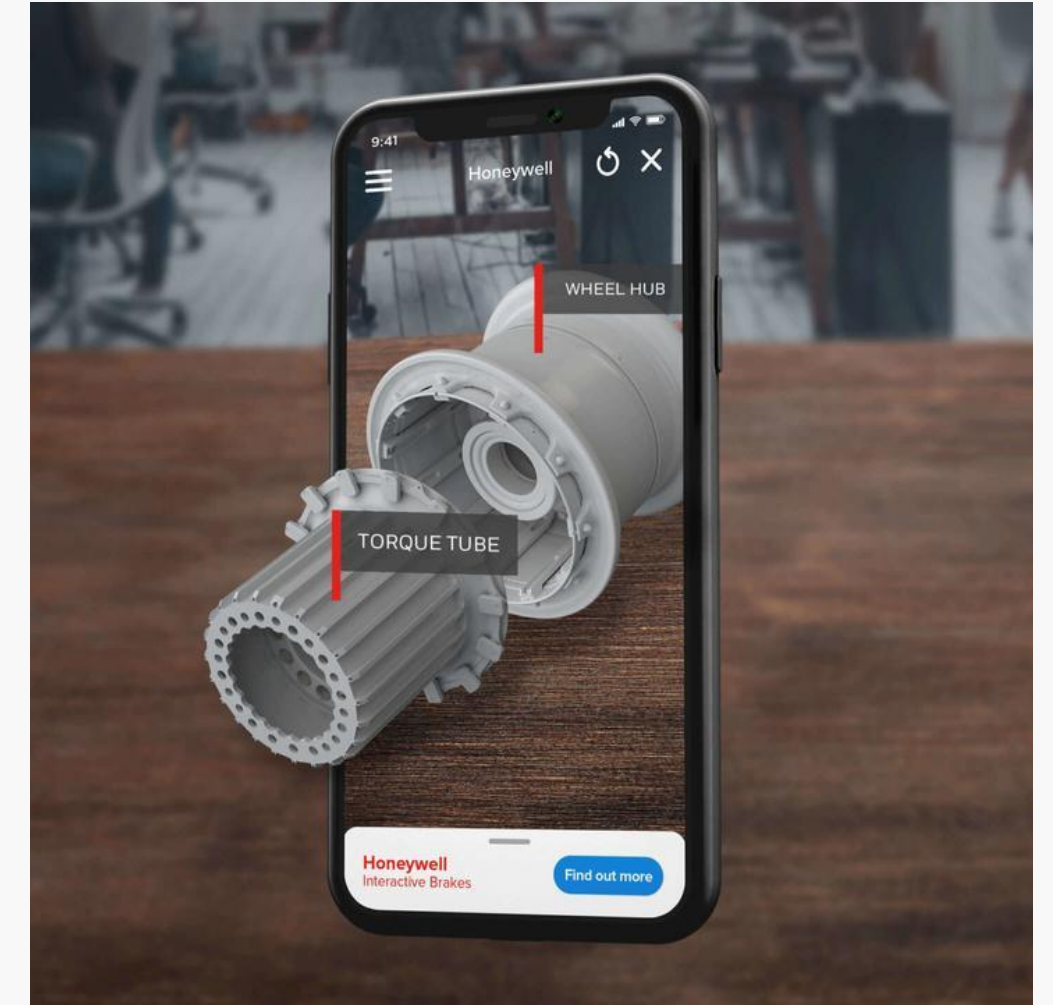
VR can be used to create virtual tours of heritage sites.



Customized Projects



Augmented Reality





Hologram

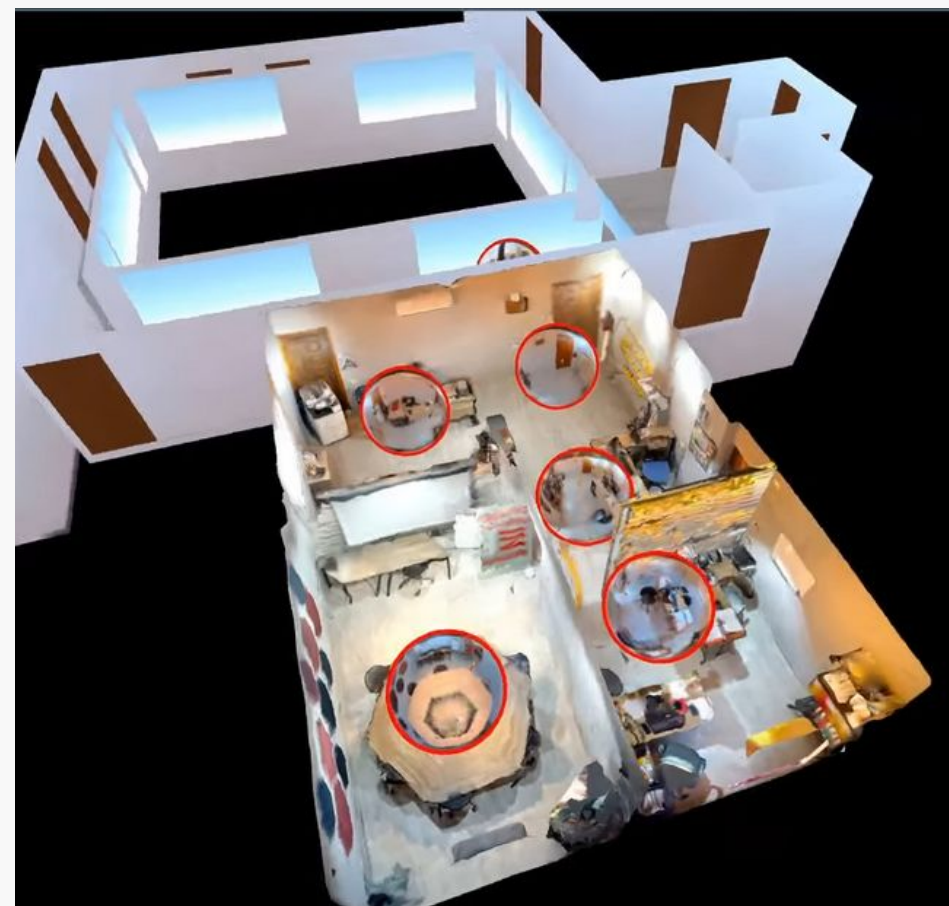
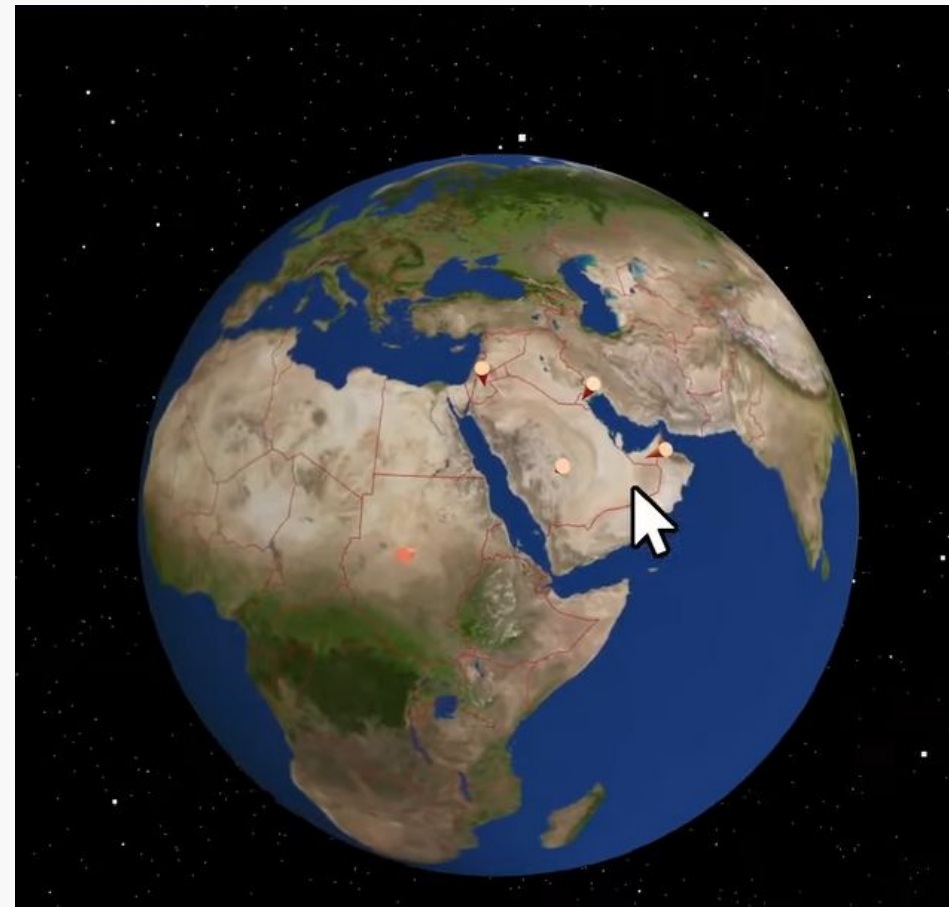
- A hologram is a physical structure that refracts light into an image. The term 'hologram' can refer to both the encoded material and the resulting image.
- A holographic image can be seen by looking into an illuminated holographic print or by shining a laser through a hologram and projecting the image onto a screen.





360 WebApp

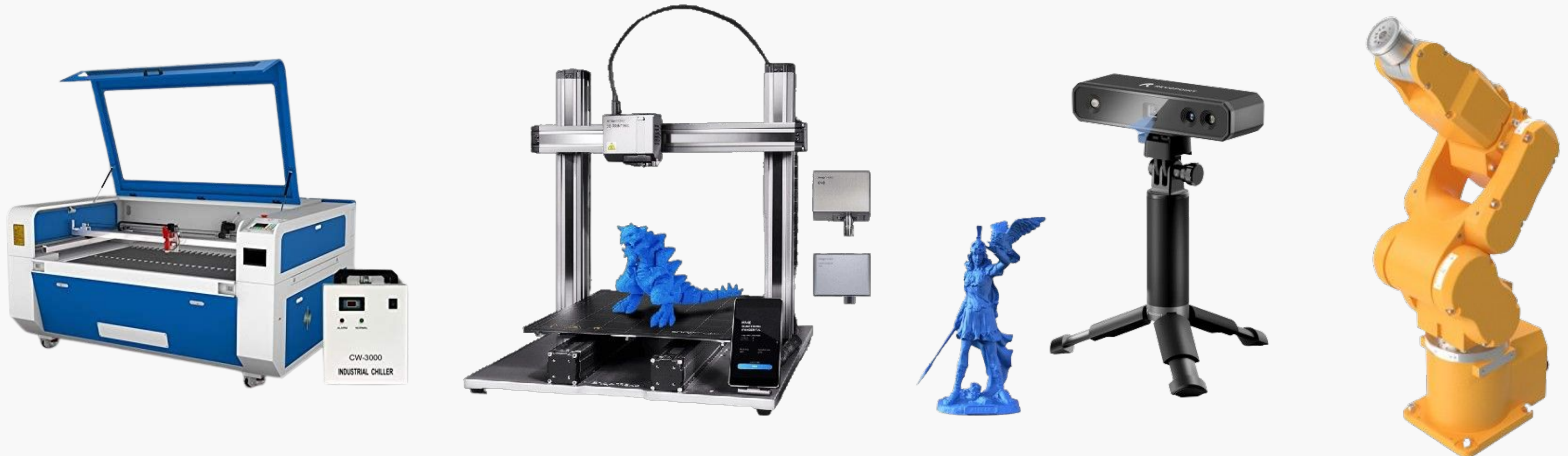
The concept of "web application" refers to a 3D interactive scene that can be viewed in a web browser.



FabLab



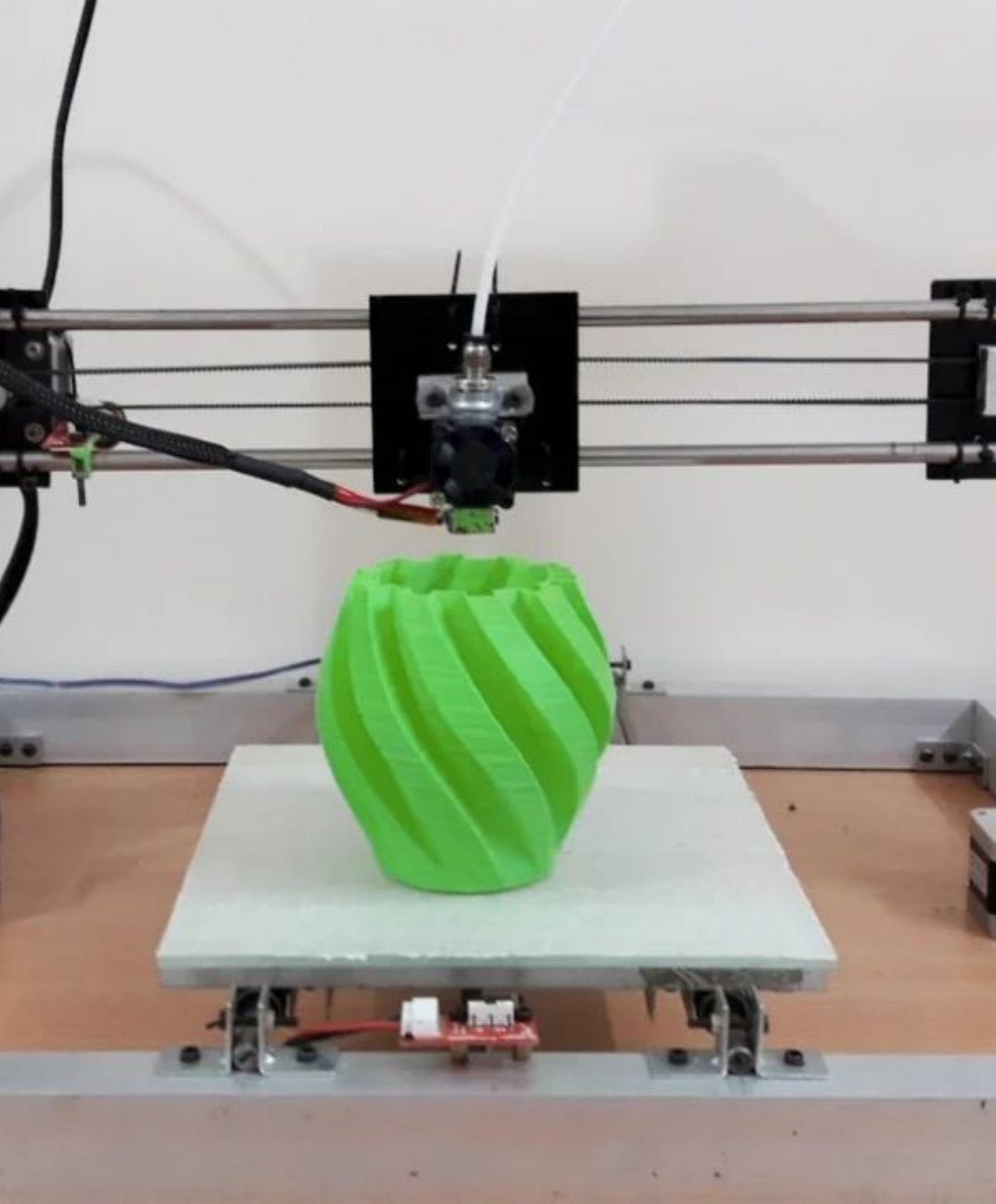
- Using 3D software, you can create a duplicate of the environment or the desired scene as a 3D object inside a game/simulation engine, then build it into a VR experience. The 3D scene allows a full movement system inside the experience, with no limitation as to the 360 images.





3D Printer

3D printing is the construction of a three-dimensional object from a CAD model or a digital 3D model.





3D Scanner

Laser based 3D scanners use a process called trigonometric triangulation to accurately capture a 3D shape.





Robotics

Robotics engineering is a field of engineering which centers on building machines that replicate human actions.





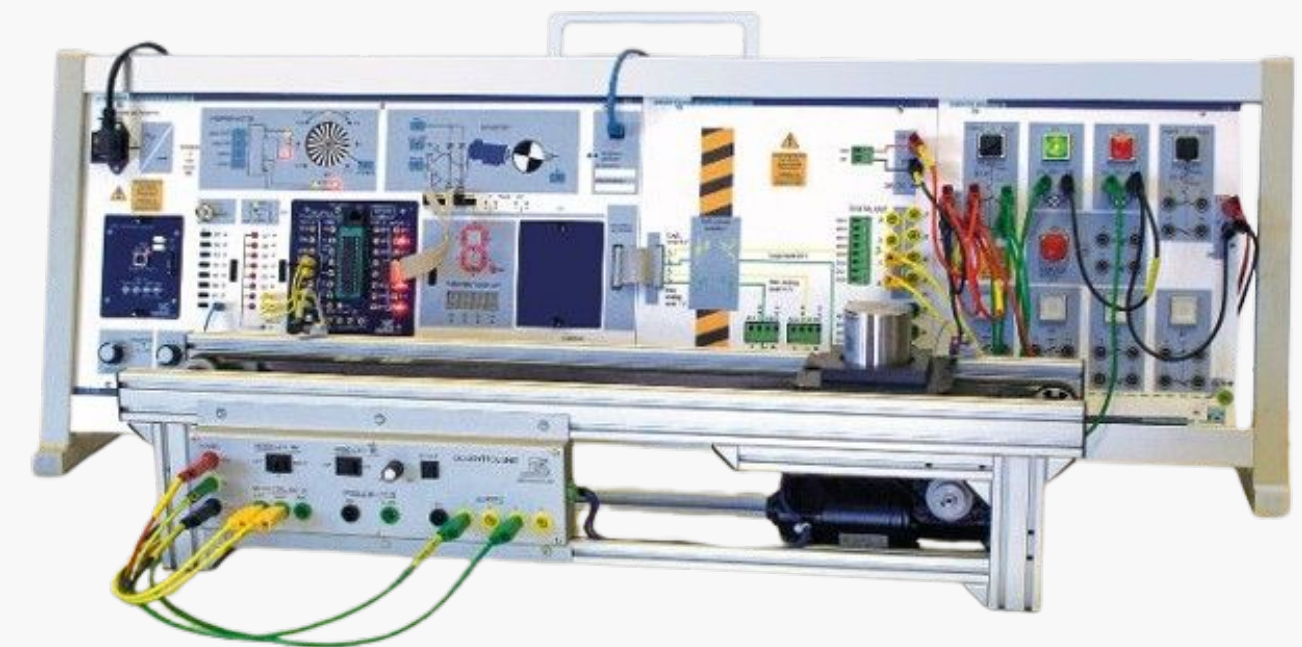
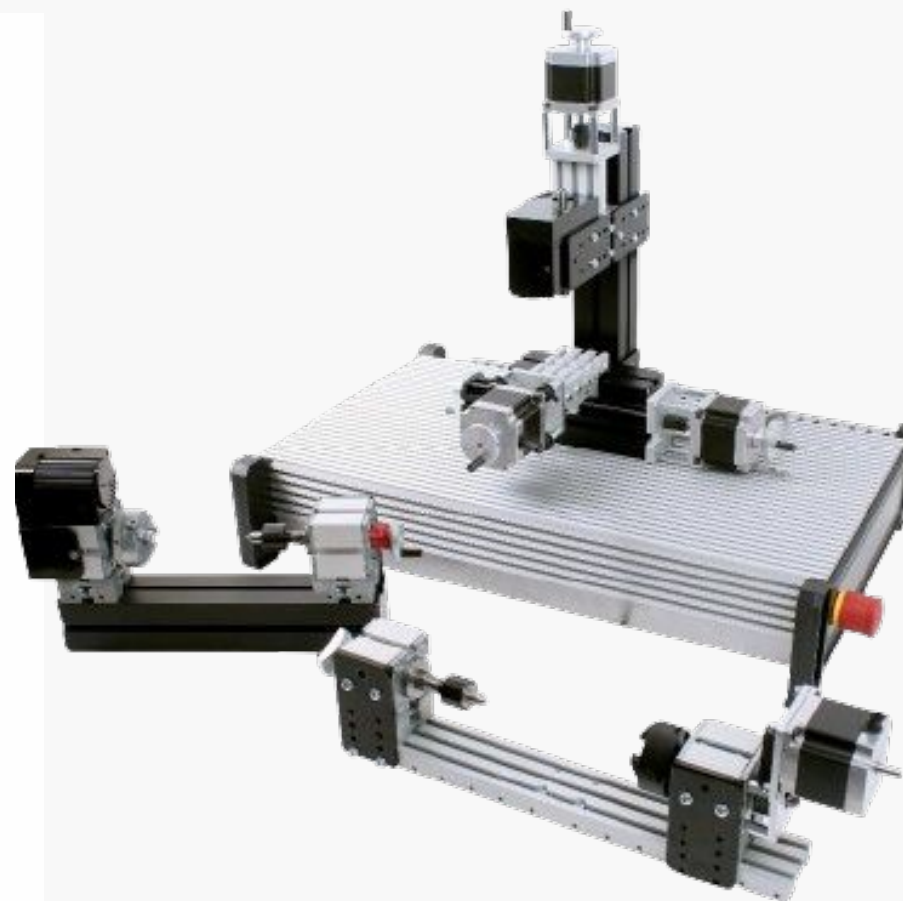
CNC Machine



Engineering Lab



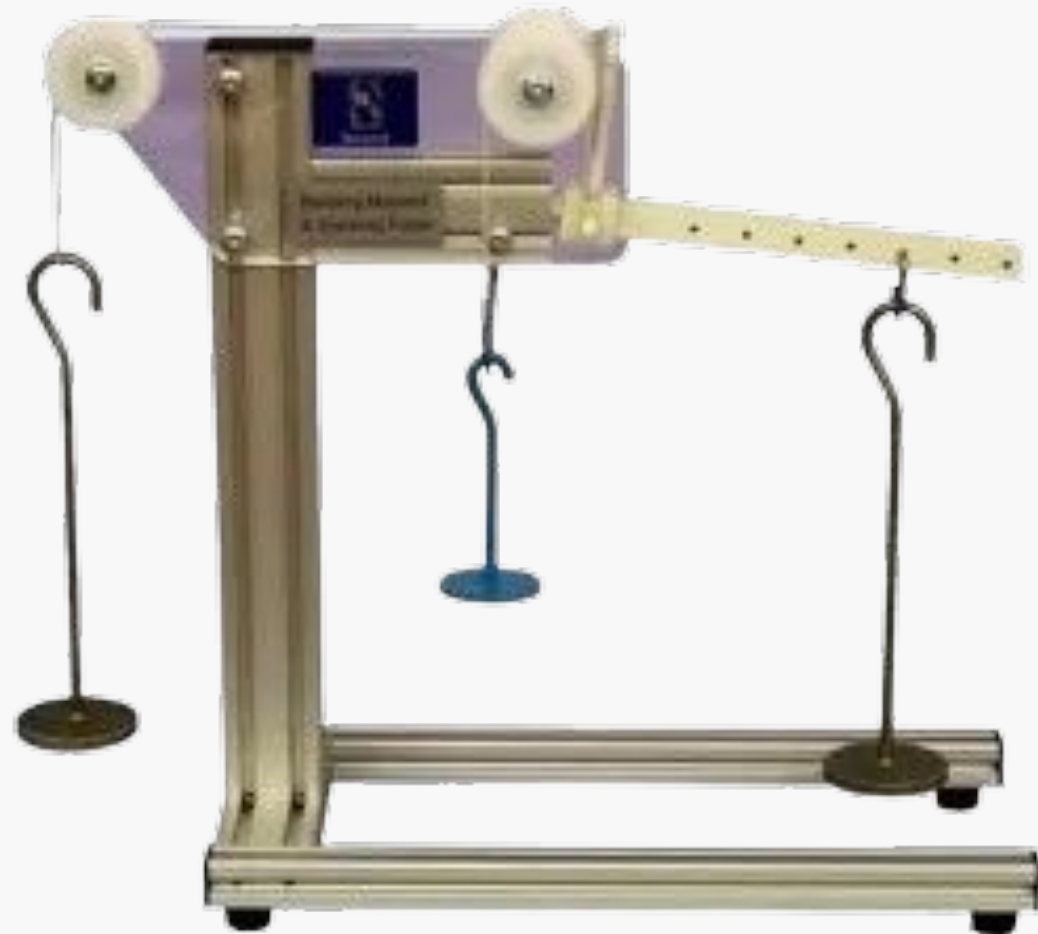
- Providing engineering services by supplying all equipment related to the field of engineering, including tools for measurement, inspection, testing, mining, modern industries, laboratory equipment, vocational training equipment, and environmental sciences.



Norwood



- Materials : Strength of Materials, testing and properties.
- Energy and Environment.
- Fluid Mechanics.
- Mechanics: Automotive, Dynamics, Theory of Machines, Statics and Mechanisms.
- Structural Engineering.
- Thermal Engineering.



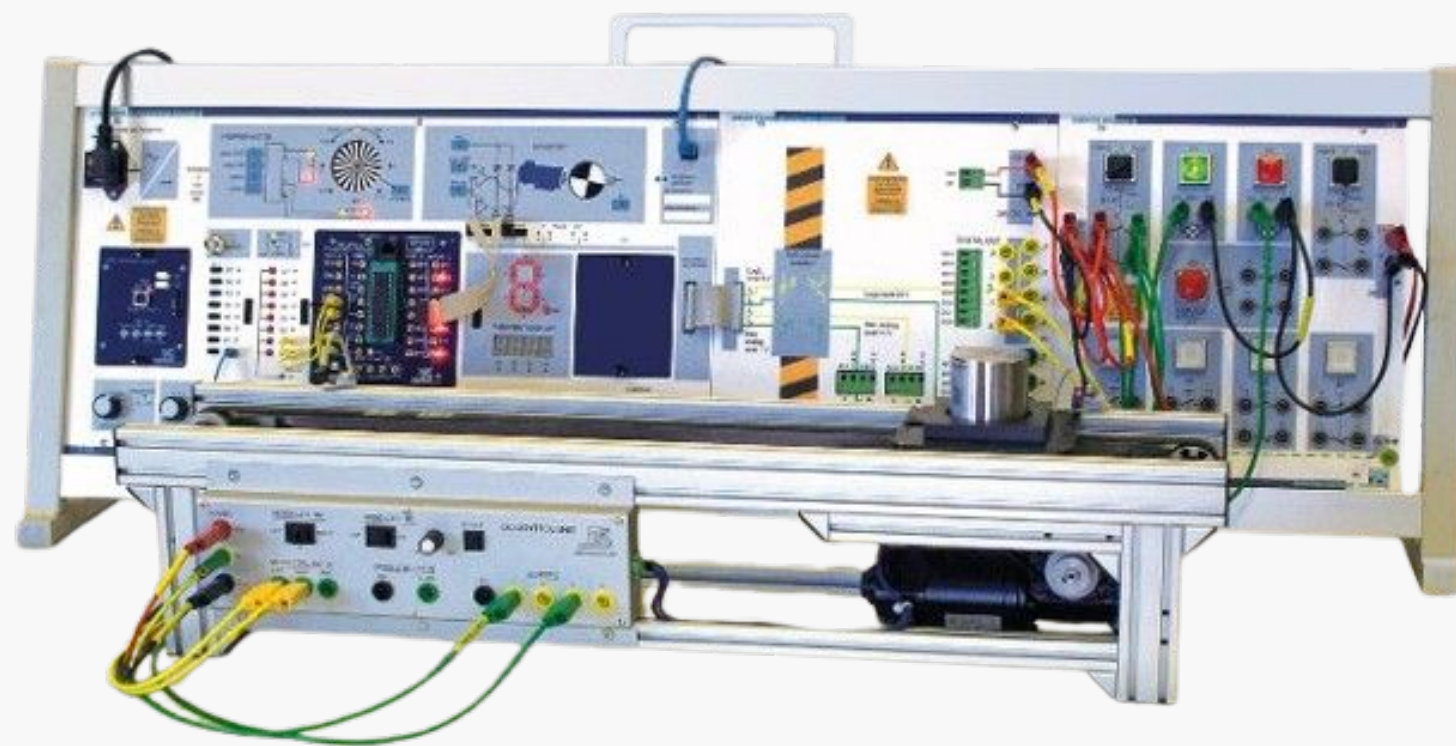
ETS Didactic



- Learning factory/connected factory.
- Digital twin.
- MES.
- Cyber security – IT security of production network.
- Industrial robot.
- Collaborative Robot.
- Training Systems for Building Automation .

- Smart Maintenance.
- Smart sensorics.
- Gear unit technology
- Roller bearing technology.
- Belt drive.
- Motor Test Bench.

- IoT.
- Automotive.
- Digital Technology.
- Microcomputer Training.
- Power Engineering.
- Control Technology.



Matrix



- Science/Physics.
- Computer Science.
- Optics, Fibre Optics, Photonics.
- Electrical/Electronic Engineering.
- Mechanical Engineering.
- Robotics/Automation/Mechatronics.
- Manufacturing Engineering.
- Aviation.
- Automotive.
- Electrical Installation.

