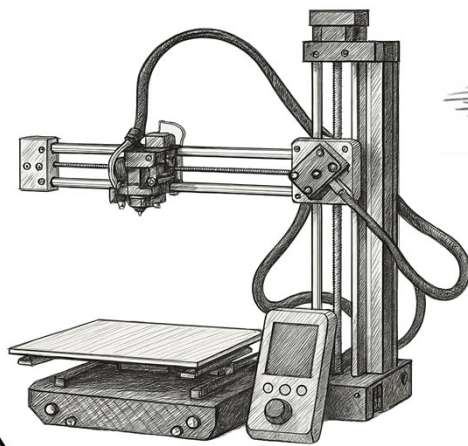
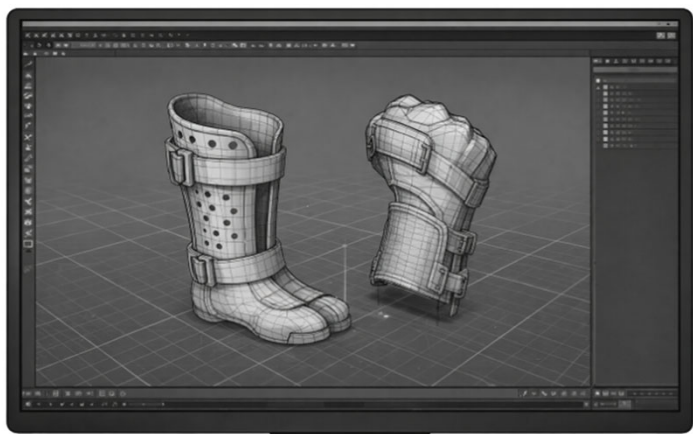


Design and 3D printing



Digital fabrication

A process of creating physical objects from digital designs using computer-controlled machines.

A digital fabrication machine, such as a **3D printer**, can produce a wide range of items, making it ideal for **prototyping and custom production**, including spare parts.

Allows designers to test rapidly, modify, and improve designs, enabling fast collaboration, feedback, and adaptability.

Democratizes the design, production, and maintenance of assistive technology.

Examples

Custom grips for kitchen utensils and tools improve independence for people with limited hand mobility.

Mobility aids such as wheelchair attachments and custom brackets enhance mobility and comfort.

Communication devices and accessories, such as AAC switch mounts and enclosures, can be produced using 3D printing.

Orthotic braces. Digitally-scanned and 3D-printed orthoses create better-fitting, lightweight supports.

Classroom ATs, including tactile learning tools and adapted educational equipment, such as reading plates and pencil holders.

Other examples include **AT spare parts**, key turners, medication organizers, tactile maps, and custom switches.