Leonardo da Vinci

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Education

Verrocchio's Workshop — *Florence, Italy*
Apprenticeship in Painting, Sculpture, Mechanics, Architecture — 1469 – 1476

Self-Directed Study — *Florence, Italy*
Anatomy, Geometry, Engineering, Physics, Astronomy, Hydrodynamics — 1476 – 1519

Experience

Court Engineer and Artist — *Milan, Italy*
Duke Ludovico Sforza — 1482 – 1499

- Designed large-scale fortifications, urban infrastructure, and innovative canal systems while conceptualizing advanced machinery such as tanks, flying devices, and hydraulic engines.
- Painted **The Last Supper**, applying anatomy, mathematics, and optics to create revolutionary perspective and emotional resonance.
- Drafted visionary proposals for Milanese city planning and agriculture that merged architecture, hydraulics, and civic engineering into cohesive blueprints.
- Advised the court on military, architectural, and cultural innovation, elevating Milan's reputation as a Renaissance capital.

Architect and Military Engineer — *Central Italy*
Cesare Borgia — 1502 – 1503

- Conducted topographic surveys and created highly accurate maps that fused mathematical projection with artistic rendering.
- Designed advanced siege engines, mobile bridges, and artillery improvements to give Borgia's forces technological advantages.

Artist and Inventor — *Florence, Milan, Rome, Amboise*
Independent — 1503 – 1519

- Painted **Mona Lisa**, pioneering sfumato blending and psychological realism to transform portraiture into a study of human depth.
- Performed dissections of 30+ cadavers, producing anatomical sketches that anticipated modern medical diagrams.
- Invented hydraulic pumps, robotic devices, and flying machines, filling **13,000+ notebook pages** with designs bridging science and art.
- Worked under patrons such as Pope Leo X and King Francis I, producing works across art, science, engineering, and philosophy.

Projects

Codex Atlanticus | *Engineering, Mathematics, Physics*

- Compiled extensive notebooks on hydraulics, mechanics, aerodynamics, architecture, and weaponry, providing a window into Renaissance scientific inquiry.
- Outlined designs for helicopters, tanks, diving suits, and calculators, centuries ahead of material feasibility.

Anatomical Drawings | *Biology, Medicine, Illustration*

- Dissected cadavers and produced highly accurate sketches of the circulatory system, muscular structure, and skeletal framework.
- Created anatomical illustrations that united observational science with artistic mastery, influencing medicine and art for generations.

Technical Skills

Languages: Italian, Latin, French
Artistic: Oil Painting, Fresco, Drawing, Sculpture, Perspective, Sfumato, Chiaroscuro
Engineering: Hydraulics, Mechanics, Architecture, Optics, Cartography, Anatomy, Astronomy
Inventions: Flying Machines, War Engines, Hydraulic Pumps, Robotics, Architectural Models
Tools: Paintbrush, Chisel, Compass, Caliper, Quill, Notebook