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## Technical Illustration: The Changes and Challenges Presented by Advancements in Technology

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### Keywords

Technical communication, technology, technical writing, writing, technical illustration, scientific illustration, medical illustration, drafting, drawing, illustration

### Abstract

This thesis investigates the changes and challenges technology has created in the field of technical illustration. Technical illustration includes the fields of technical drawing as well as scientific and medical illustration. Previously, technical illustrators learned and used traditional illustration methods, without the aid of computers. However, technology has rapidly entered the field and has changed the education, work environment, skills, and role of the technical illustrator. I note both the benefits and disadvantages that current technical illustrators are facing in their work. I explore both sides of the digital media and traditional art debate while focusing on the technical illustrator's role, tools and methods used in the illustration process, education, idea-generation, and the future of technical illustration. By emphasizing the issues associated with the incorporation of digital media into traditional methods, I hope to bring awareness to the transformation of technical illustration and the future of this discipline.

### Notes

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Ten technological advances changing the world and how we live in it. Some of the most exciting discoveries and inventions became launching pads for a new era of innovation in computers, electronics, manufacturing, and medicine. URBAN HUB takes a look at ten technological advances that are so revolutionary they will continue to shape our lives well into the future. VR and the future. They are the technological advancement of all time. Without semi-conductor chips, the computer would have never been invented. The computer would not have evolved into the laptop, and the laptop would not have been able to transform into the tablet and mobile phone. This is because every invention required some sort of teaching, be it in a formal classroom setting or not in order to introduce the technology to man and make him accepting of its resulting implementation. These are the reasons why lifestyle and education cannot be discussed as separate topics in this paper. While education has always been the priority of man through any evolution, that does not mean that technology was not an important part of the process.