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**Field Report**

Despite being fields that all share computers as their primary focus, computer science, software engineering, and information technology all have different ways of showing it. With computer science, it is all about understanding, designing, and developing programs and computers. Information technology deals with the installation, development and implementation of computer systems and applications. Lastly, software engineering is all about with building and maintaining software systems. Basically computer science has a design aspect but it is mainly about understanding computers, information technology focuses on designs and installs hardware, and software engineering is all about making software and making sure it works properly.

One field of computer science is computer programming. According to Computer Science Online, being a programmer can be described as “Coders use their familiarity with programming languages to transform software designs into computer-readable instructions.” Computer science is pretty essential in this field, as one needs extensive knowledge about the inner workings of computers in order to become a programmer.

Another field is a computer network architect. Network architects help create and maintain communication networks, namely creating blueprints and patches. This field is similar to being a computer programmer, however it is much more specialized. Computer science ties in in a similar was to programming as well, as being a network architect is all about designing and maintaining networks.

A third field computer programming plays a large part in is data mining. A data mining specialist is responsible for designing data analysis programs to “mine” for information. Similar to the other two jobs mentioned earlier, computer science has a deep tie-in to data mining. Specialists design programs for sifting through large amounts of data, which having a computer science background is very helpful when doing something like this for a career.

After college I am wanting to go into robotics, which computer science plays a key part in. It’s role in the program is all about designing the programs that control the robot, giving it function. Thus computer science contributes, arguably, about half of what is needed to create a functional robot. Without it, a robot would only be a glorified paperweight with next to no functionality.

**Sources**

<https://www.computerscienceonline.org/careers/>

<http://www.bestcomputersciencedegrees.com/faq/can-you-use-a-computer-science-degree-in-robotics/>

<https://www.bls.gov/ooh/computer-and-information-technology/home.htm>