What is computer engineering?  
Since engineering is the application of the principles of basic science to the solving of problems within constraints (that is, building things!), computer engineering is engineering applied to computers and computer-based systems. In other words, computer engineers build computers such as PCs, workstations, and supercomputers. They also build computer-based systems such as those found in cars, planes, appliances, electronics, phones, communication networks, and many, many other products. Computer engineers typically design not only the hardware, but also much of the software in computer-based systems.