Gerber files

Ever asked yourself what comes after the design process? When we finish designing our schematics and PCB layout we start performing some design rule check for our PCB, if everything is fine and green we'd move to the next stage which is the fabrictaion process. The fabrication process starts by selecting the PCB manufacturer and Then you will find on the manufacturer website a place to uploafd your design files. The design files a re special type of files name "Gerber files" which is a file formate. We export our design in this formate with some considerations from the manufacturer. After you send your Gerber files to the manufacturer, the gerber files goes to the computers responsible for operating the drilling machines and starts drilling the holes and making the copper traces. Sounds very cool process but we 're having an important question here which is "Why do i have to do all of this and not just send the design from the CAD program?". The answer fo this question is that Gerber files are not only useful because drilling machines can understand them more easily but there's another crucial importance which is the avoidance of stealing the design. If you sent the CAD files directly to anyone what's stoping them from copying it and fabricte the design under there own name? In this case the Gerber files plays its main role which is you cannot easily steal a design from Gerber files unless you will start doing some reverse engineering thing.