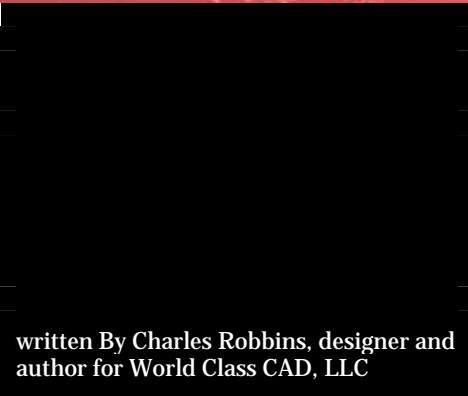
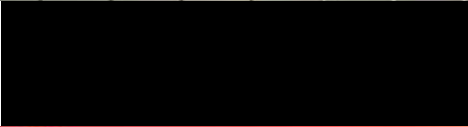
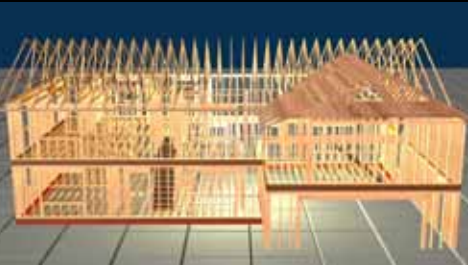
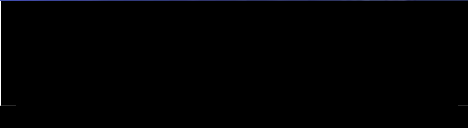
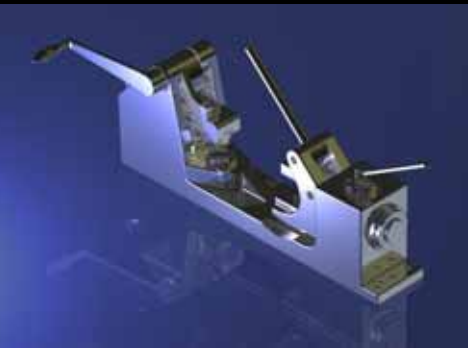


If we all did the things we are capable of, we would astound ourselves.

Thomas Edison



In the 21<sup>st</sup> century, Designers and especially Computer Aided ones are in great need. The number one characteristic of a designer is to create. In the world today, we can hear the voices of customers who want better modes of transportation, better housing, better security and better tools for communication. Very few professionals practice the disciplines that reach across traditional engineering boundary lines to really go after these problems. Many designers do.

Designers are expected to be able to use computers to draw 3D structures, 2D wiring diagrams and have the expertise to render images that will meet the visual needs of their audience. To do that job well, each and every designer eventually learns through practice the intricate points of engineering, the complexity of software and the colors and textures to please the eye.

Designers are the first to build the prototype. They make the model in virtual reality that tomorrow technicians will erect on the factory floor or on the construction site. Throughout the majority of history, the scaled or full size prototype was built to answer complex assembly problems. Today, Computer Aided Designers fabricate models in software packages such as AutoCAD, Architectural Desktop, Solid Works and Pro Engineer. Customers, contractors and the entire design team can see the interaction between their components immediately and make corrective action without waiting for weeks for physical parts. That designer skill saves thousands of dollars right away.

Designers write computer programs to create graphics 10 times faster than done by human hand. They use programs like ORCAD and PROTEL to build and test wiring diagrams, that when manufactured can connect computer networks to the machine to accomplish a task. Of all professionals in an Architectural and Engineering organization, designers do develop the “can do” spirit that Thomas Edison spoke of.

Art and usability have been intertwined throughout human history. Designers learn to understand that positioning buttons on a computer panel or display and paying attention to their size, color and labeling are just as important as the rest of the intricate problem. Innovators deal with flat art, 3D solid models, and computer renderings. They learn to match colors and shapes. By practice, they grow the skills to develop a product that meets the desires of their customer.

Designers work well with a team and cultivate the leadership qualities needed to bring about positive change to our local communities and to the world. They are the real behind the scenes professionals that can operate the most sophisticated software used on computers today. They develop the proactive ability to see challenges early and solve the problems.

**Who can be a designer? You can! You** are a person that wants to create **something** just from an idea, whether your own inspiration or someone else's. **How can you do this?** By developing designer skills which are Computer Aided tools and multidiscipline training.

**World Class CAD.com** is an Internet portal to developing the skills of design. You can learn these by:

- ☑ Classes taught at [Kaplan College, Columbus, Ohio](#)
  - Earn an Associate Degree in Engineering Drafting / CAD at TEC
- ☑ Online step-by-step instruction at [WorldClassCAD.com](#)
- ☑ Online video instruction at [WorldClassCAD.com](#)
- ☑ World Class CAD challenges and certificates

written By Charles Robbins, designer and author for World Class CAD, LLC



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