Dimensioning Strategy for Introductory Computing Graphics Students

By Longwell, John

Computer aided drafting (CAD) technology has made placing and moving dimensions effortless. The price for a dimensioning error (incorrectly placed, over dimensioned, etc.) is simply to click it and fix it. The student's tactic often is to place as many dimensions as possible, then submit the drawing for the instructor to critically evaluate it. While the dimensioning rules may seem endless to a beginning student, they need some criteria for them to use. Professor Longwell will outline a strategy for students to use while they are dimensioning. This strategy, based on the concepts of GD&T, gives the student the ability to critically evaluate the dimensions while they are creating them. This will be a true workshop that you should be able to learn and apply in your graphics communication courses.

Biography

John has a BS Metallurgical Engineering from RPI and an MBA from SUNYIT. He worked in the waterworks, automotive and machine tool industry for 30 years in a variety of manufacturing, quality assurance, engineering and research and development positions. In 2001 he began as an instructor at Corning Community College teaching courses in the engineering science and mechanical/manufacturing/machine tool technology programs at CCC. He has taught introductory CAD courses using AutoCAD and SolidWorks, and currently teaches SolidWorks in the engineering AS program.