MicroCFD Plug-in for nanoCAD

MicroCFD shape files (SHP) can easily be created with the free computer aided design software nanoCAD and a plug-in. Please download, install, and register nanoCAD first.
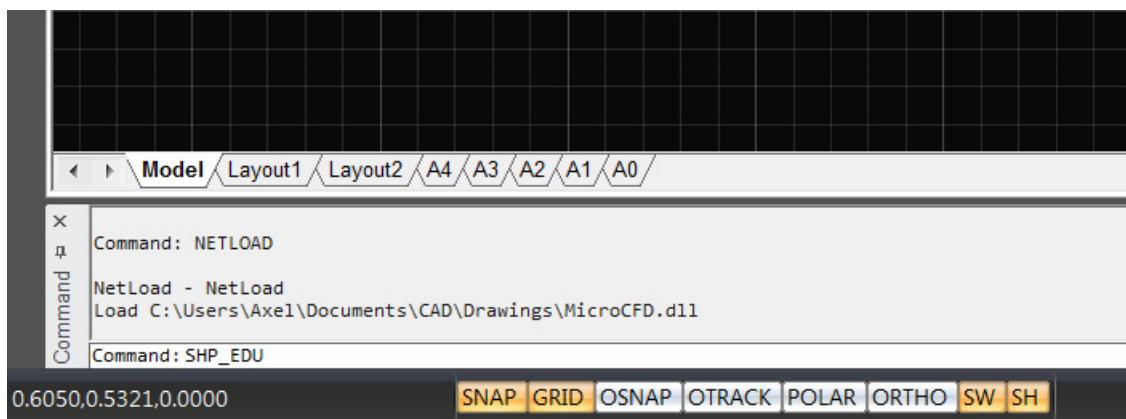
http://nanocad.com/

Included with this zip file are the nanoCAD plug-in (MicroCFD.dll) and a sample drawing file (Teardrop.dwg). Please save both files into your nanoCAD drawings folder.

Every time you start nanoCAD you have to reload the plug-in as follows:

Type **NETLOAD** into the nanoCAD command window, which will open the drawings folder.
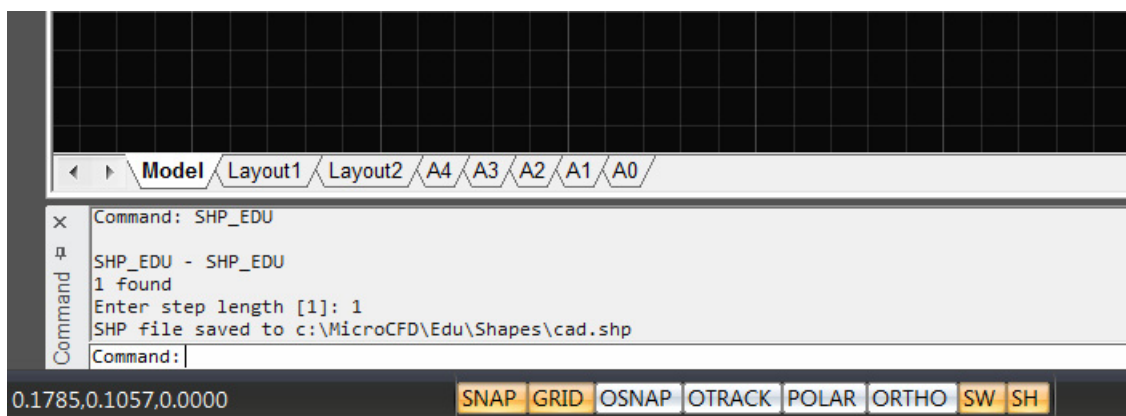
Select MicroCFD.dll and then **Open**.

The plug-in has two commands, either one to be entered in the nanoCAD command window:

> **SHP_EDU** : Saves the SHP file to c:\MicroCFD\Edu\Shapes\cad.shp

> **SHP_PRO** : Saves the SHP file to c:\MicroCFD\Pro\Shapes\cad.shp

You can only select a closed curve, otherwise the operation will abort. The sample teardrop drawing is a closed curve of two lines and an arc, which can be used as a demonstration.

Before you can close a curve in nanoCAD with **PEDIT**, you have to **JOIN** all segments, which requires a certain sequence. Please see the **HELPCONTENTS** for details.

To create a MicroCFD shape file (SHP) from an image file such as BMP, JPG, TIF or PNG, select the **Insert** Menu, **Image From File…** and choose the image file to be imported.
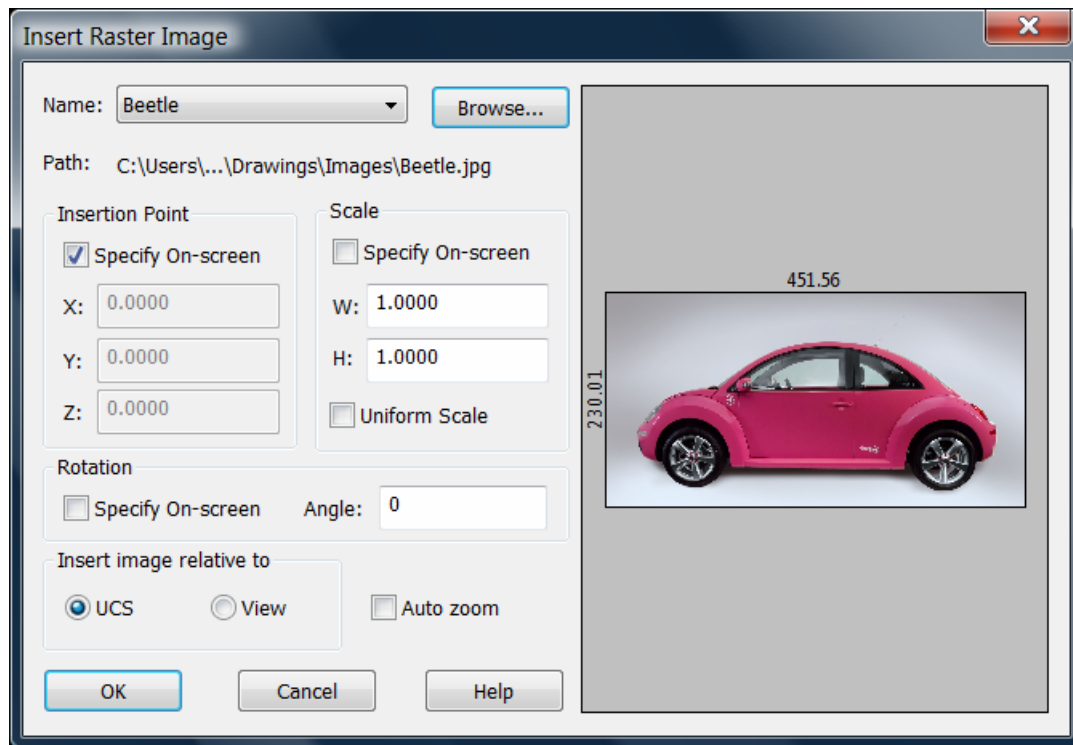
When the dialog window opens, click **OK** and place the image in your drawing. You can trace the image with the **PLINE** or **SPLINE** command and then run **SHP_EDU** or **SHP_PRO**.

The flow over a car is nearly 2D along its centerline cross section. There are no wheels along the centerline, and thus the shape of a car appears to hover above the ground.

http://www.microcfd.com/gallery/car-sub-m.htm

If you have any questions running the plug-in or using nanoCAD, please do not hesitate to contact help@microcfd.com with your drawing file (DWG) attached to your email.