Overall Plan:

Set up:

1. Import both the guidance curve (set up as equations and files (x,y,z) ) and the profiles (set of ordinates)
2. Normalize the profile
3. Calculate the ¼ chord coordinates, and the centroid of the airfoil
4. Perform flipping on the airfoil profile
5. Generate 2 airfoil profiles, one for beginning and one for ending
6. Twist angle and skew equations

Transformations

1. Make a giant loop to execute everything
2. Move each guide curve down to ¼ chord
3. Then rotate by twist angle
4. Translate back to original origin
5. Match the profile with the lines from the guidance curve
   1. 3 points: two ends and quarter chord
   2. Move profile to original location of guidance curve
   3. Then perform same manipulations.

Export as x,y,z text file.

x-in and out of page

y: along horizontial

z: vertical

(cartesian coordinate)

All data is x,y,z column form

All units are in mm