

Call: generateGCode()

generateGCode()

New Character

Scale and calculate
x coordinates

Scale x and calculate
y coordinates

Verify Pen Status

State Change

Generate pen
command

Down

Up

Generate S1000

Generate "S0"

No Change

Select Movement Type

Pen Down

Pen Up

Generate G1 Command
(movement with drawing)

Generate G0 Command
(movement without drawing)

Format Command with position
Gx Xnew Ynew

Send to robot via SendCommands

WaitOK

ok received

Update currnen y and x position

More chars?

CheckMore

returns to processWord()

