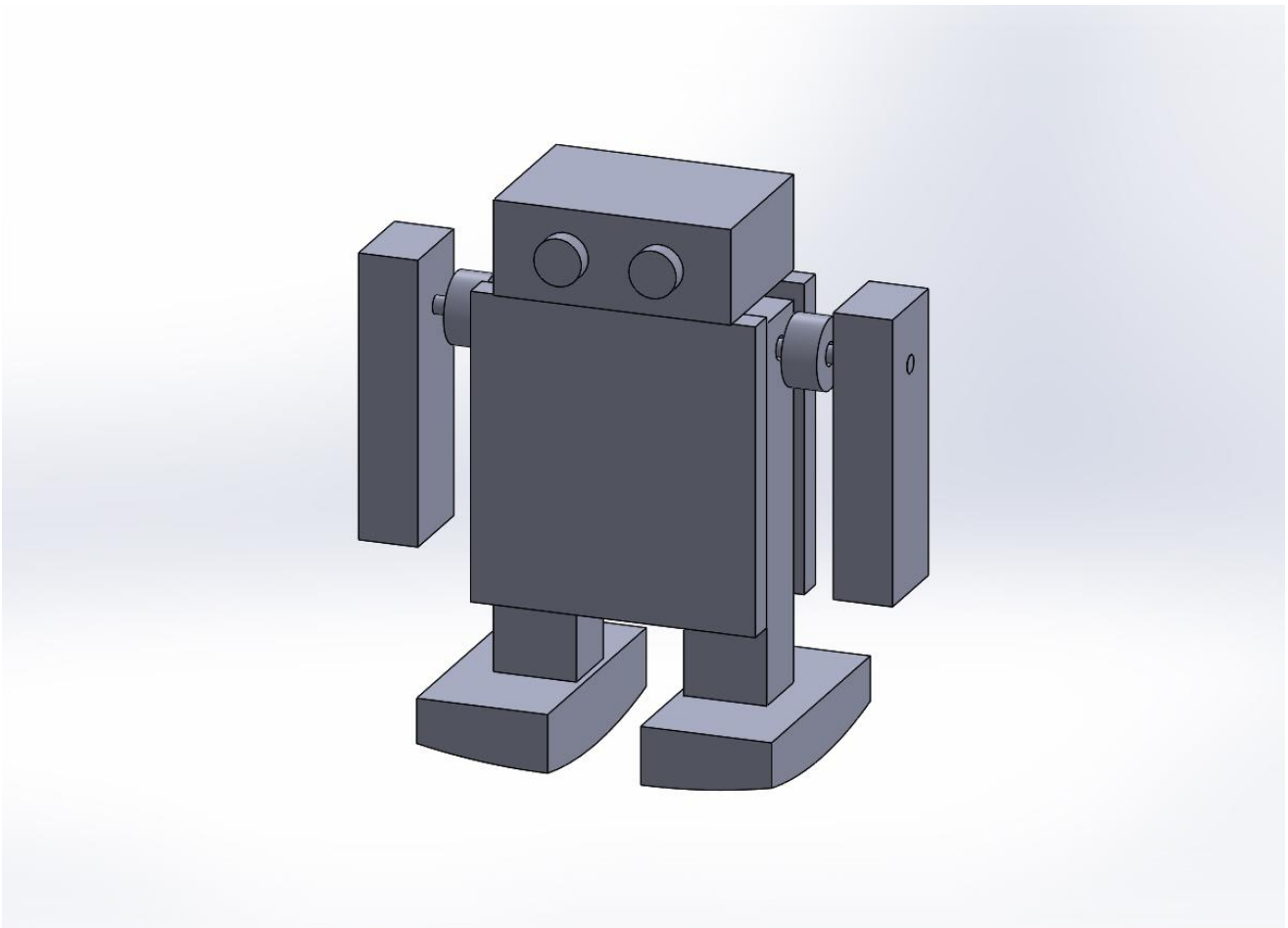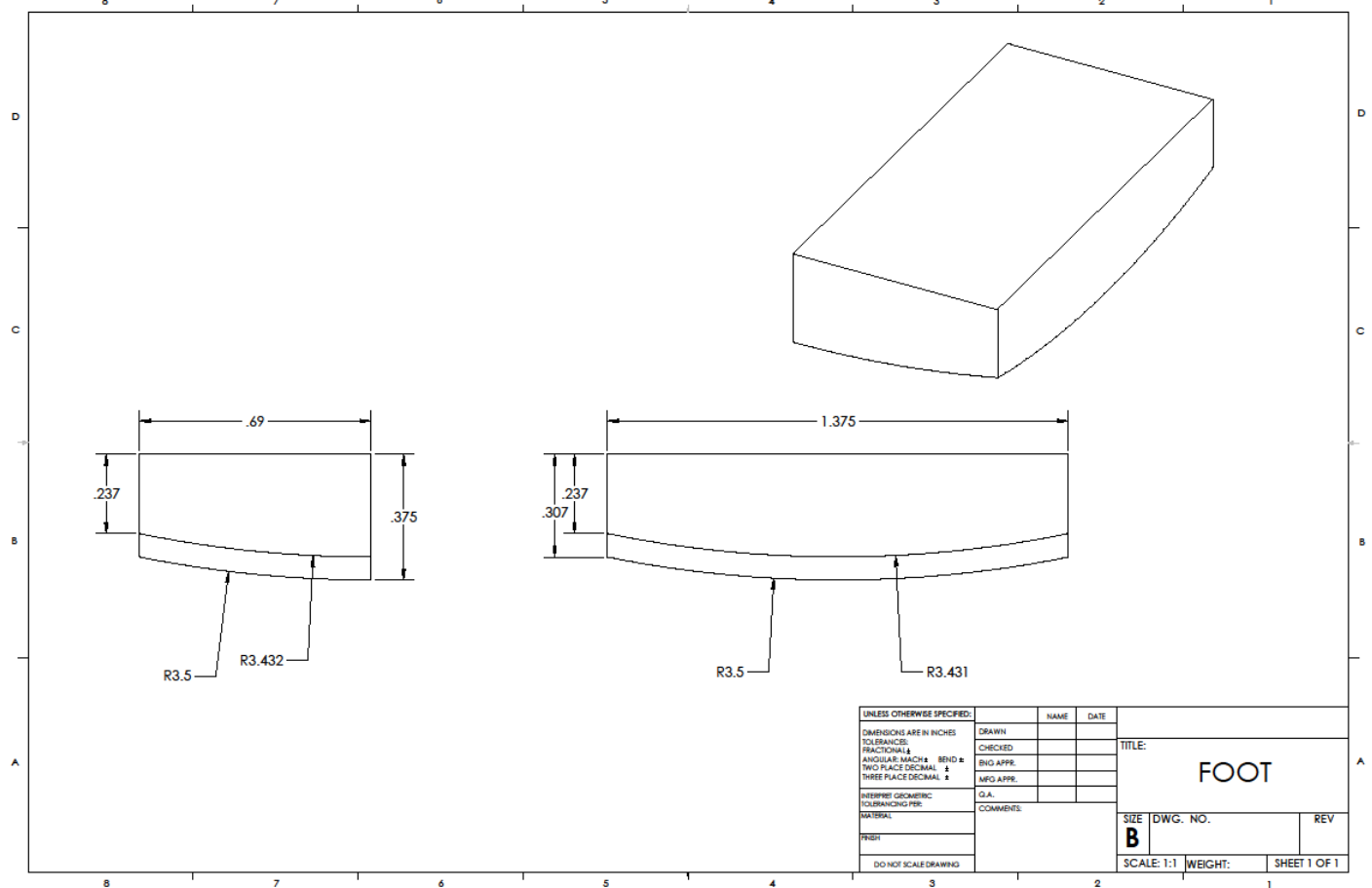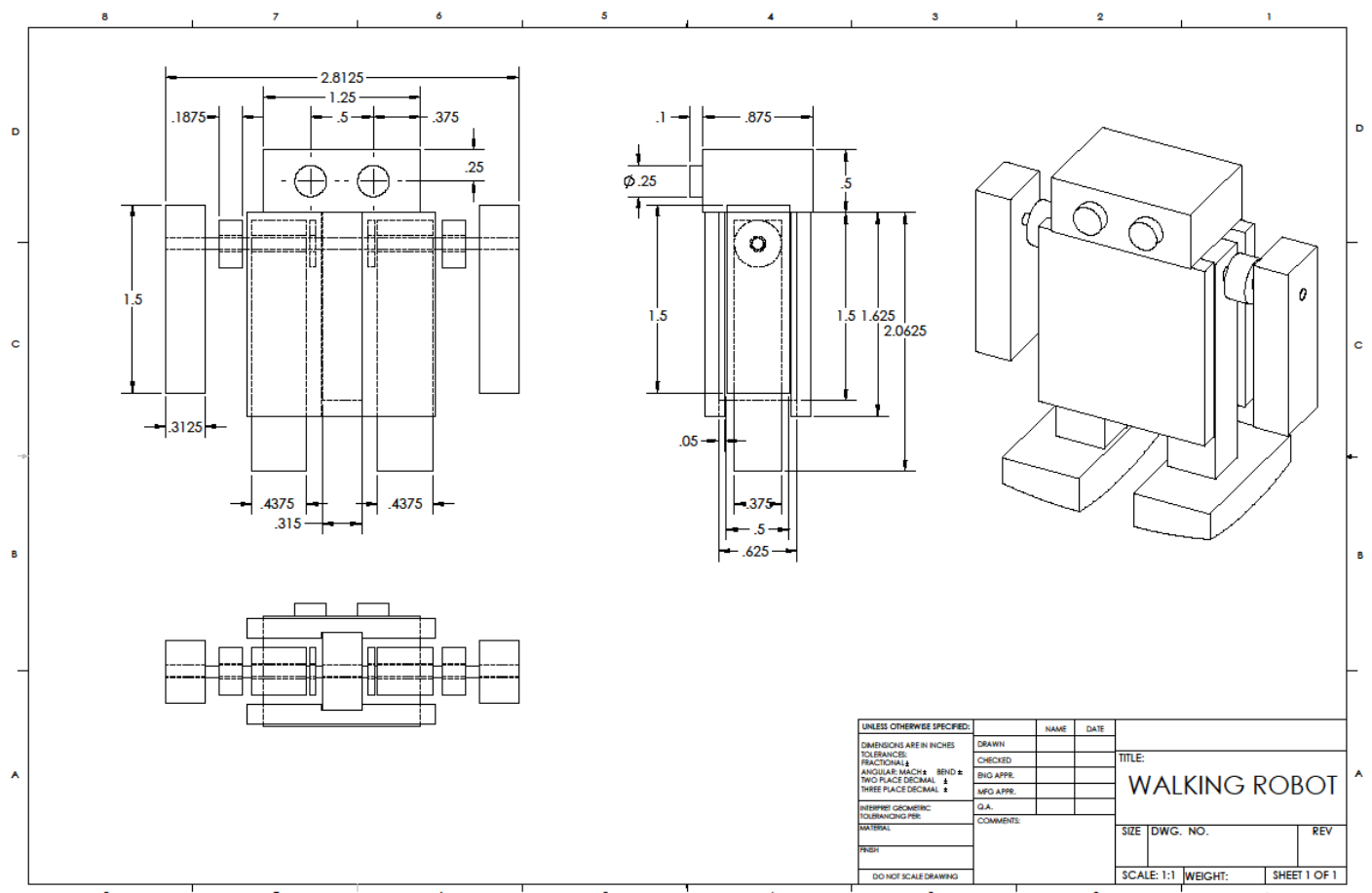# WALKING ROBOT

- ❖ MUST BE NO LARGER THAN 3" X 1" X 3"
- ❖ BODY SPACER AND ARMS SHOULD FIT SNUGGLY TO AXLE
- ❖ LEGS, SPACERS, AND WASHERS SHOULD FREELY ROTATE
- ❖ PRINT ON ONE PALETTE

WALKING ROBOT

Dimensions on top drawing: 2.8125, 1.25, .1875, .5, .375, .25, 1.5, .3125, .4375, .4375, .315, .1, .875, Ø.25, .5, 1.5, 1.5, 1.625, 2.0625, .05, .375, .5, .625

FOOT

Dimensions on bottom drawing: .69, .237, .375, 1.375, .237, .307, R3.5, R3.432, R3.5, R3.431

Instructions for sending parts to Orion 3D printer:

❖ Save assembly as an STL. File

❖ Open Cura and open the file

❖ Be sure to check that your part is scaled correctly

❖ To print every part on one palette, don't put parts far apart i.e on opposite corners

❖ Once Mr. Bruggeman approves the print you can begin the print

| Basic | Advanced | Plugins | Start/End-GCode |

Quality

Layer height (mm)	.25
Shell thickness (mm)	1.0
Enable retraction	☑

Fill

Bottom/Top thickness (mm)	1
Fill Density (%)	20

Speed and Temperature

Print speed (mm/s)	60
Printing temperature (C)	210
Bed temperature (C)	50

Support

Support type	None
Platform adhesion type	Brim

Filament

Diameter (mm)	1.78
Flow (%)	100.0

| Basic | Advanced | Plugins | Start/End-GCode |

Machine

Nozzle size (mm)	0.5

Retraction

Speed (mm/s)	40.0
Distance (mm)	5

Quality

Initial layer thickness (mm)	0.2
Cut off object bottom (mm)	0.0
Dual extrusion overlap (mm)	0.15

Speed

Travel speed (mm/s)	150
Bottom layer speed (mm/s)	30
Infill speed (mm/s)	0

Cool

Minimal layer time (sec)	8
Enable cooling fan	☑

Instructions for sending parts to U-Print 3D printer:

- ❖ Save assembly as an STL. File
- ❖ Open CatalystEx 4.4 and open the file
- ❖ Be sure to check that your part is scaled correctly
- ❖ Then add the part to "Pack"
- ❖ Once Mr. Bruggeman approves the print you can begin the print