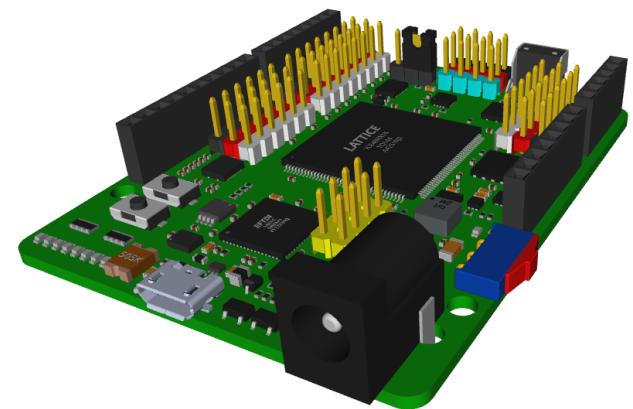
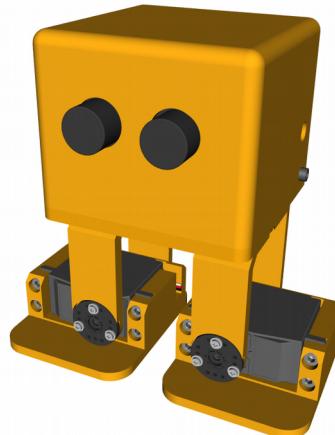


FreeCAD: Designing in 3D with Open Source Tools



Juan González Gómez

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<https://github.com/Obijuan>



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Rey Juan Carlos

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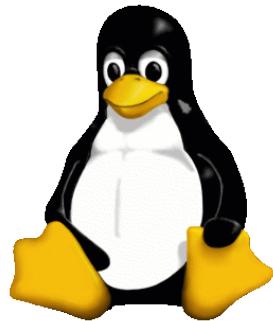
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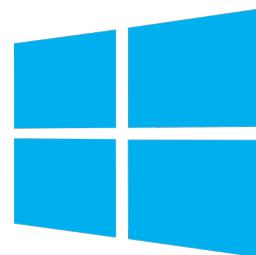
IES Los Cerros
Úbeda (Jaén)
15-Nov-2017



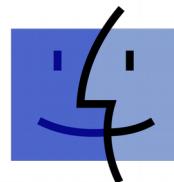
Freecad is multiplatform



GNU / Linux



Windows



Mac OS

Freecad is Open Source

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Branch: master

Commits on Nov 14, 2017

DlgCustomizeSpNavSettings.ui: remove trailing whitespace 0cb8a39
luzpaz committed 12 hours ago ✓

Commits on Nov 13, 2017

make retrieving view direction numerically more stable, change orient... d04fd16
wwmayer committed 15 hours ago ✓

Draft: tooltip uniformity fixes d8b2855
luzpaz committed 19 hours ago ●

Spreadsheet: follow-up correction to d43716f [skip ci] 5ea950e
luzpaz committed with wwmayer 2 days ago

Fix Dimension value format with Qt5 4ea6204
WandererFan committed 2 days ago ✓

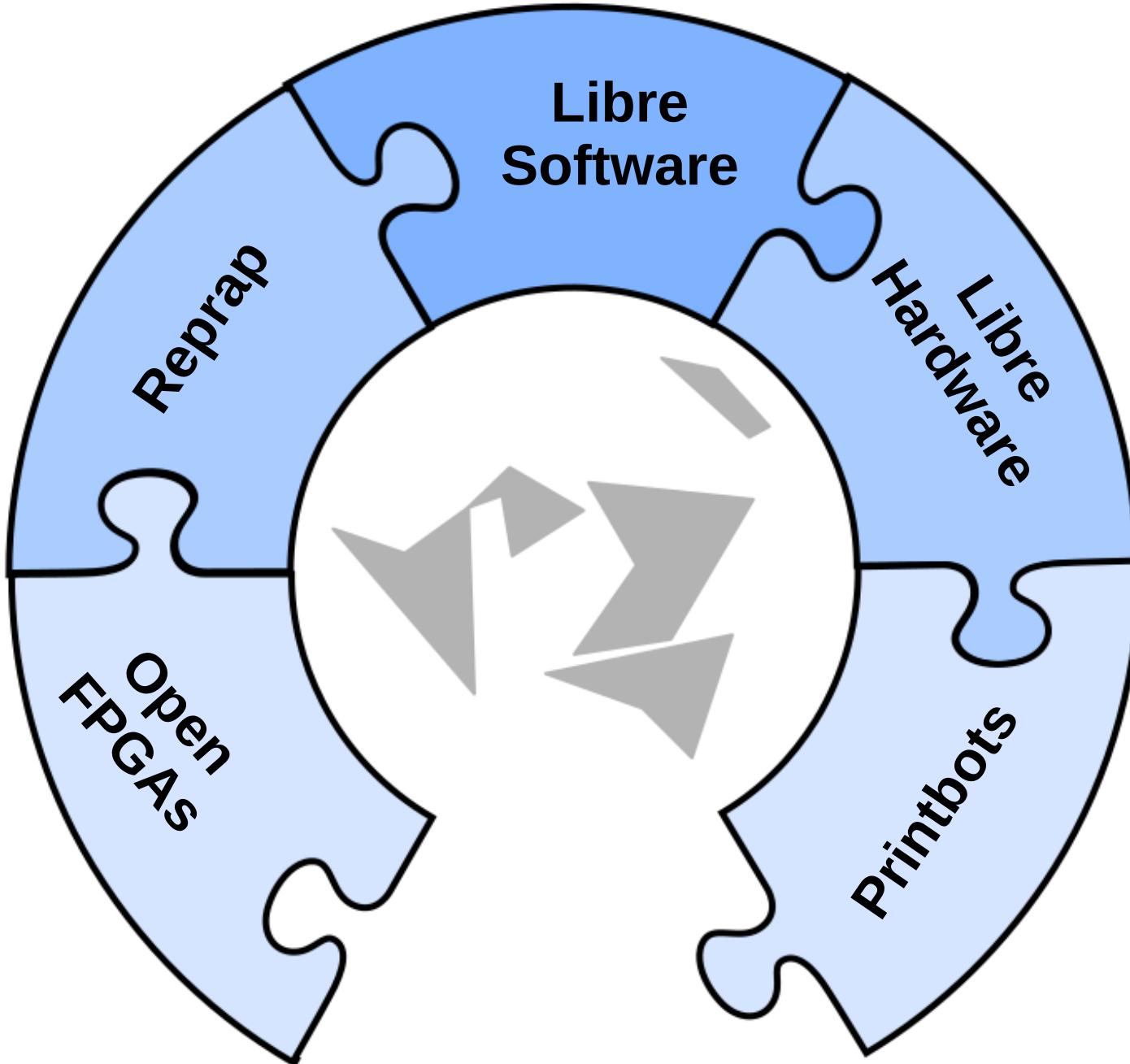
Fix calculation of integer scale 3c79000
WandererFan committed 4 days ago

Make decimal point optional in FormatSpec 9d038dd
WandererFan committed 6 days ago

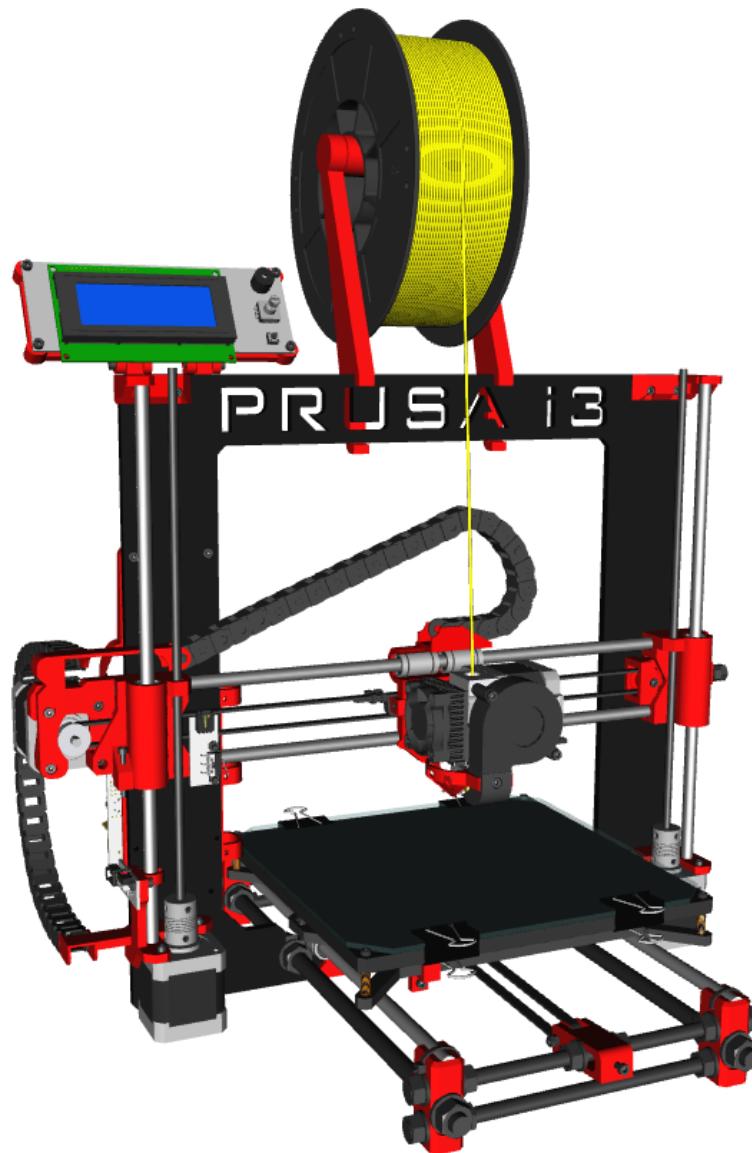
Fix QConcurrentFuture implementation

<https://github.com/FreeCAD>

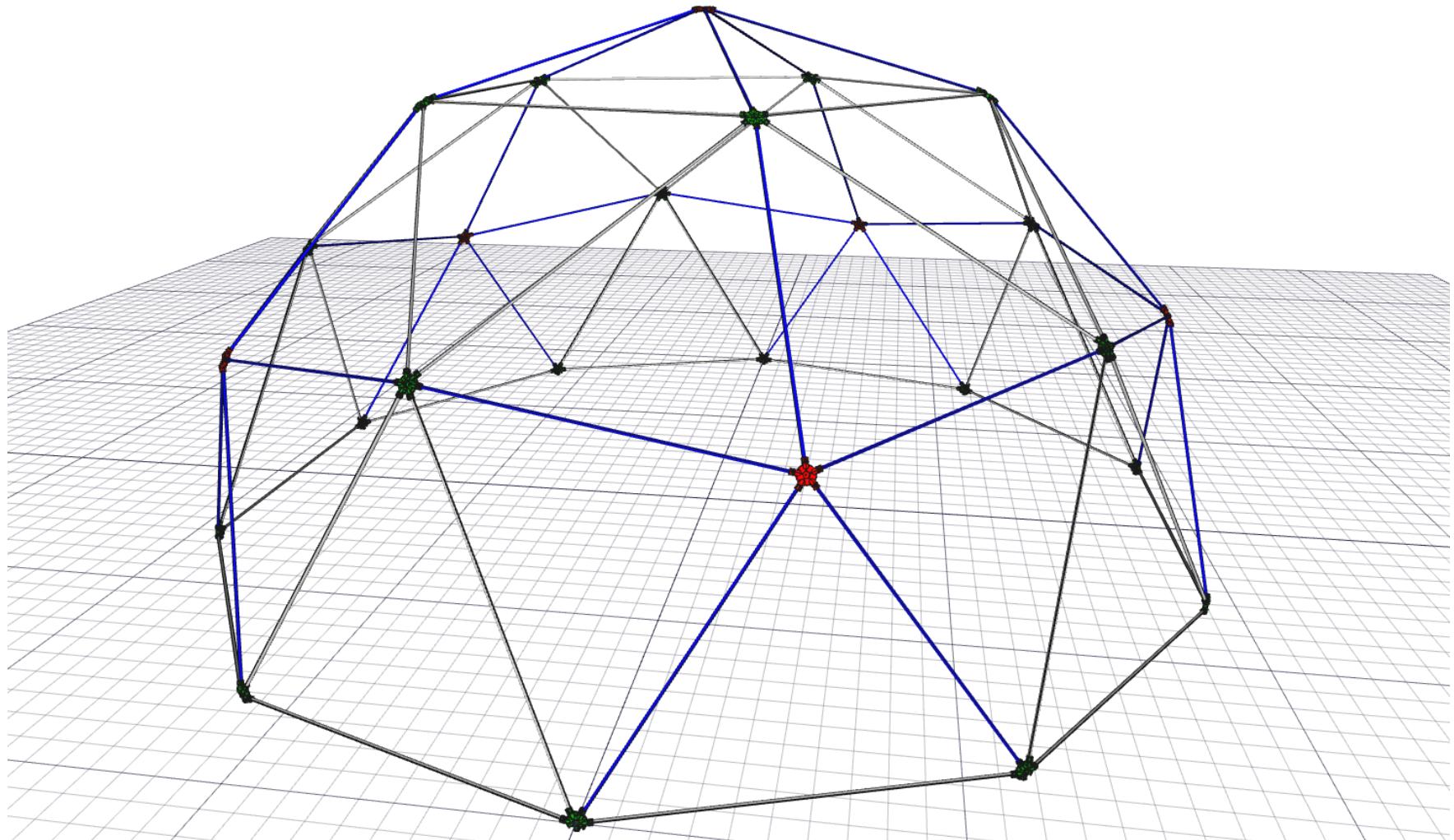
Technological Heritage



Example design 1: 3D printer



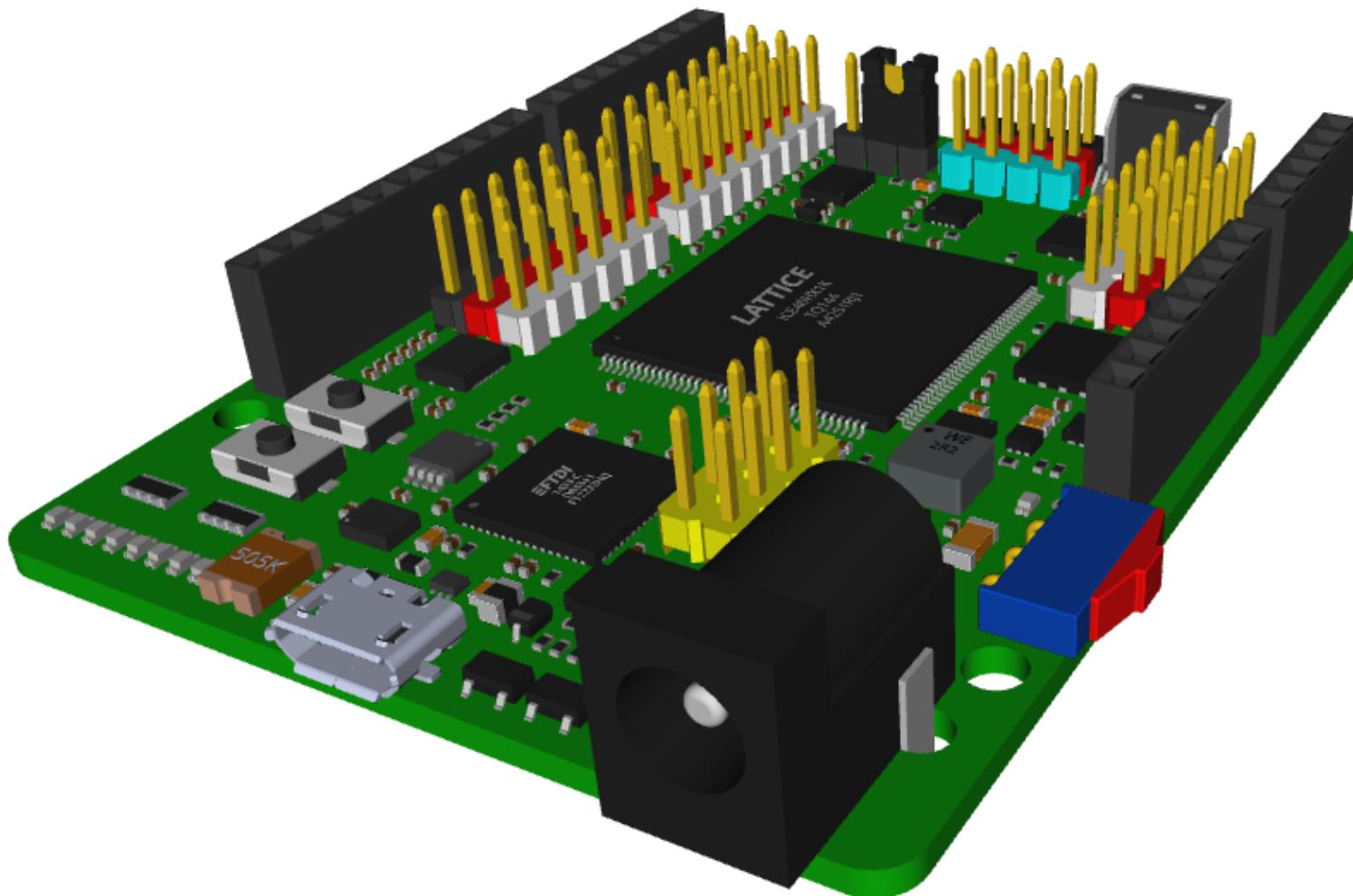
Example design 2: A dome



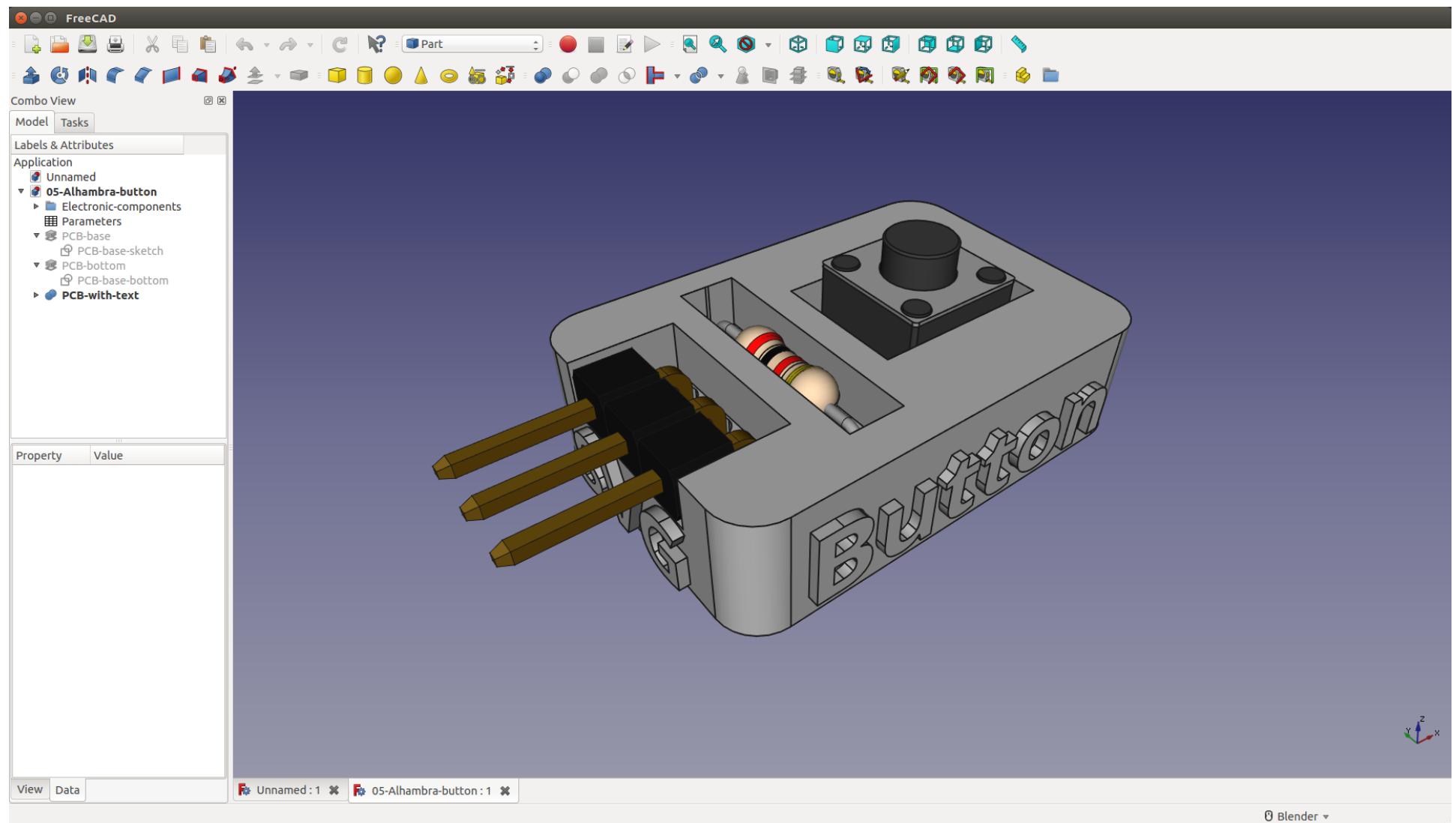
Example design 2: A dome



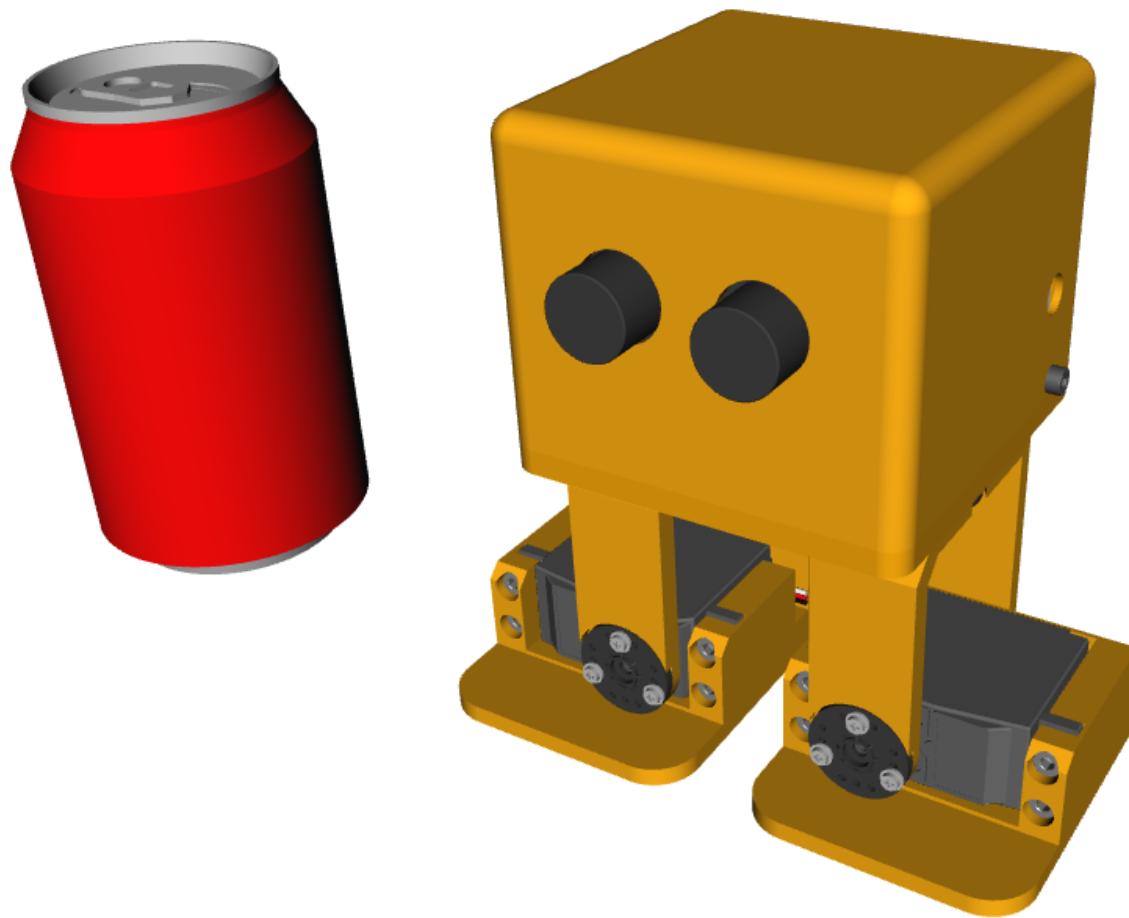
Example design 3: Icezum Alhambra board



Exaple design 4: PCBprints

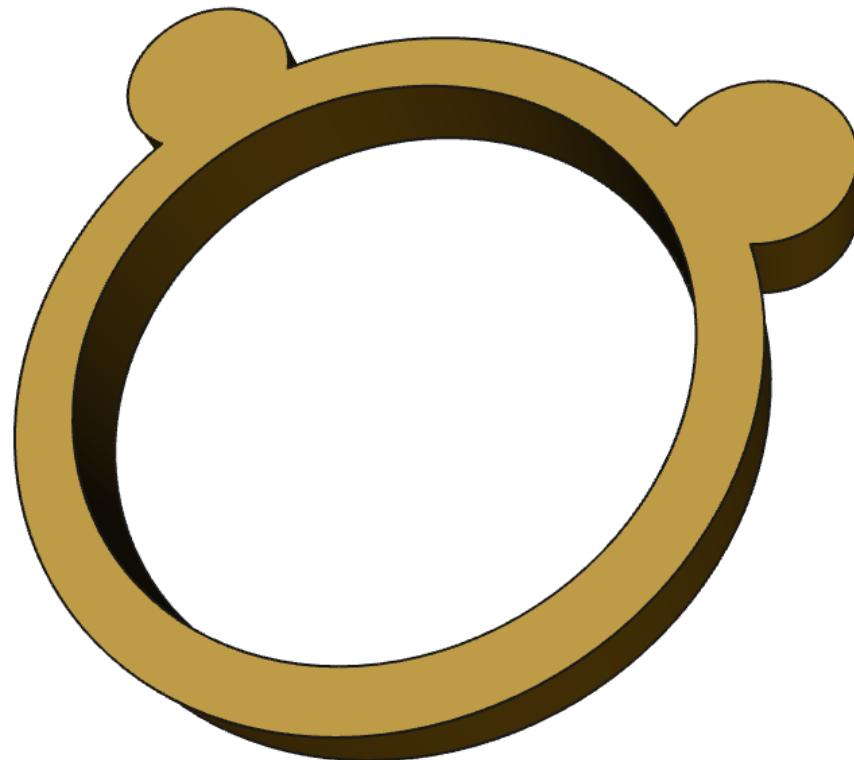


Example design 5: Zowi



Demo 1: Constructive solid geometry

A ring with ears

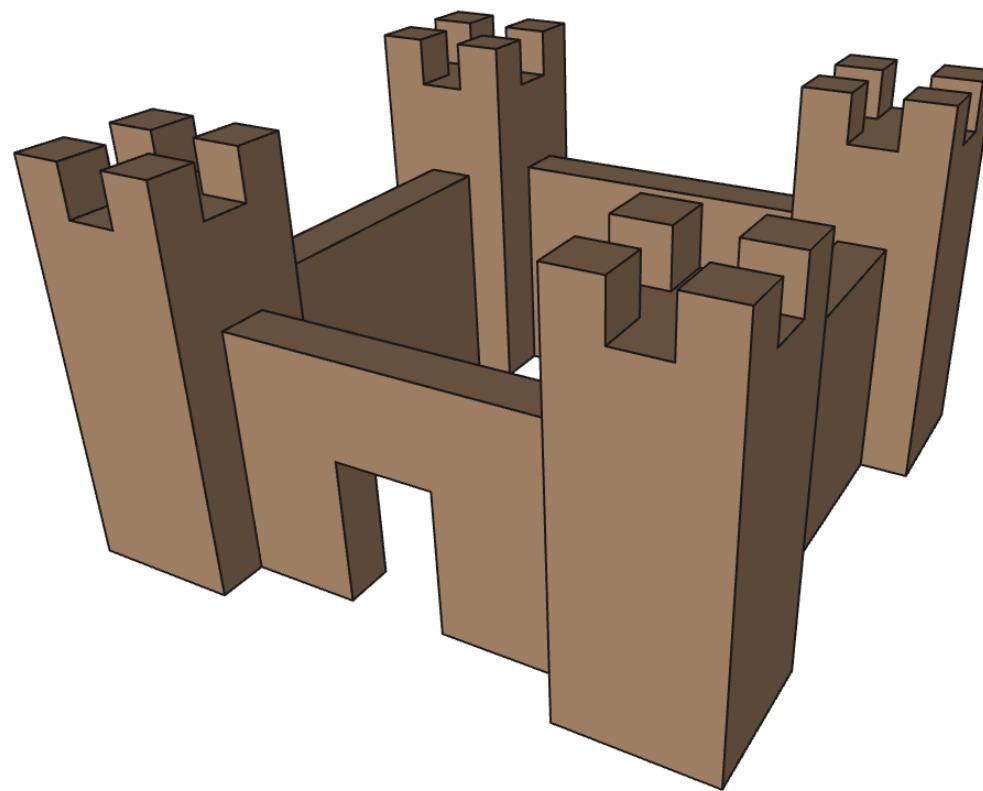


3D printed ring

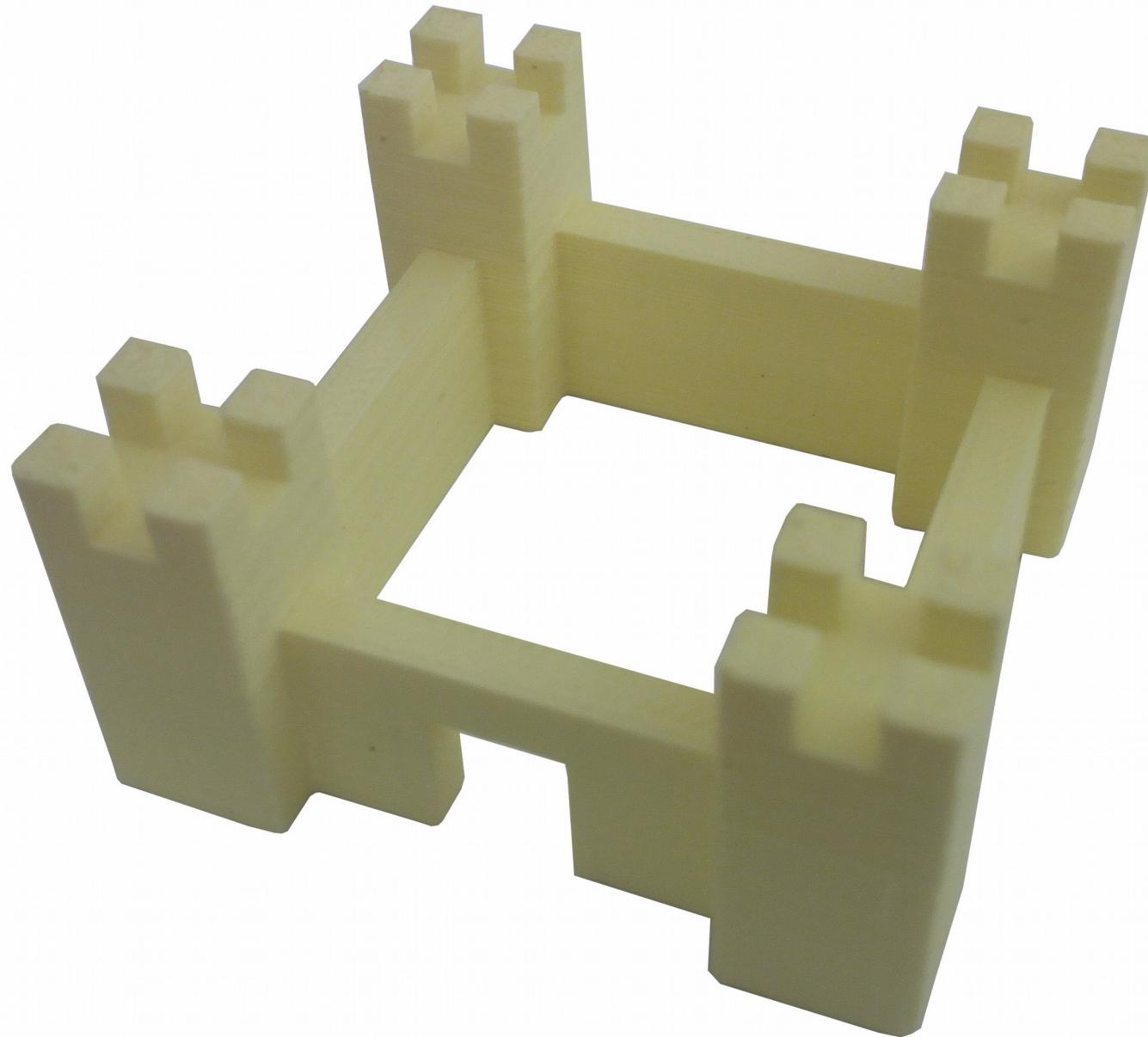


Demo 2: Constructive solid geometry

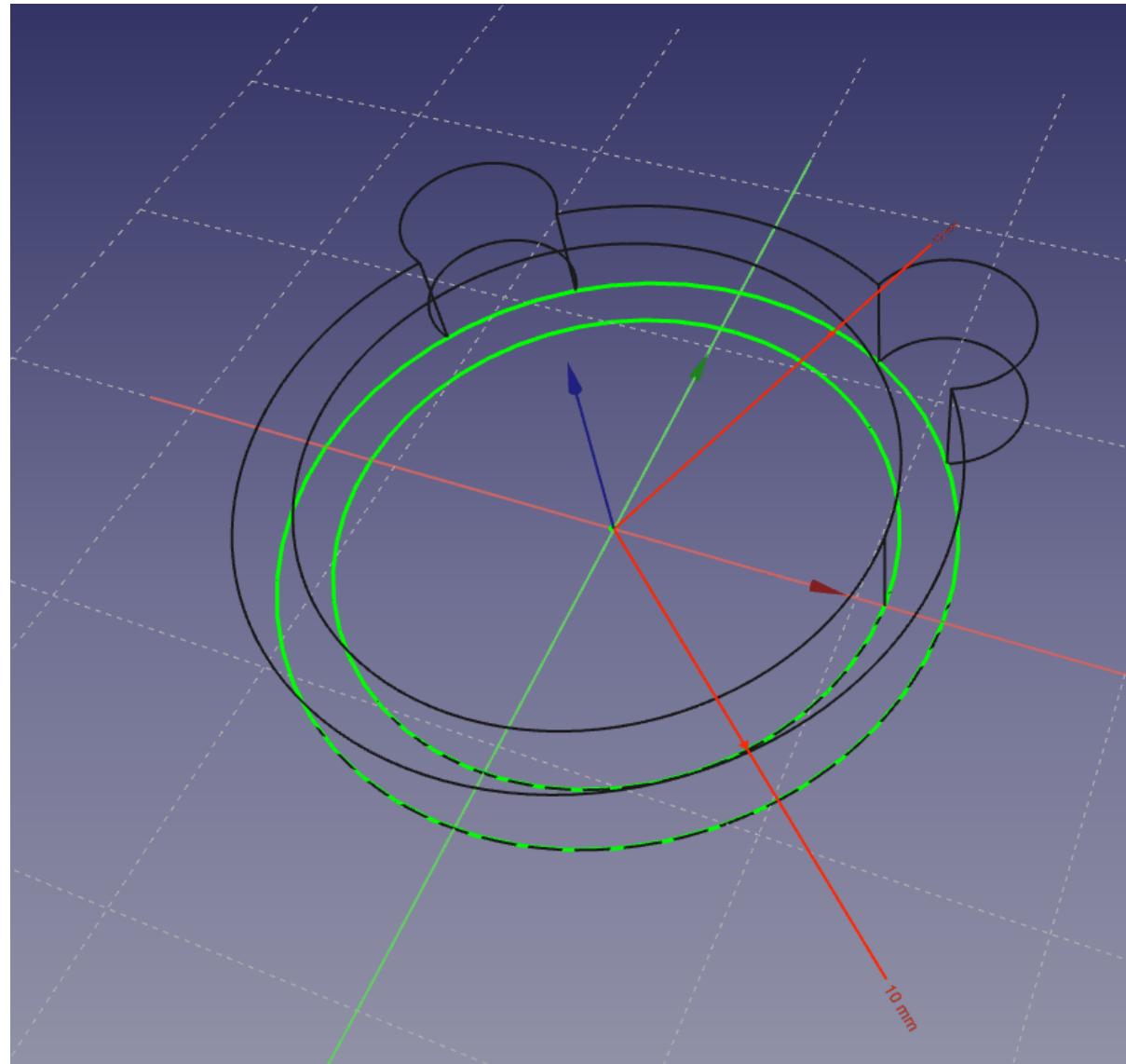
Castle



3D printed castle



Demo 3: Working with sketches



Demo 4: Parametric designs

The screenshot shows a parametric design interface with two main panes: a spreadsheet-like table on the left and a 3D model on the right.

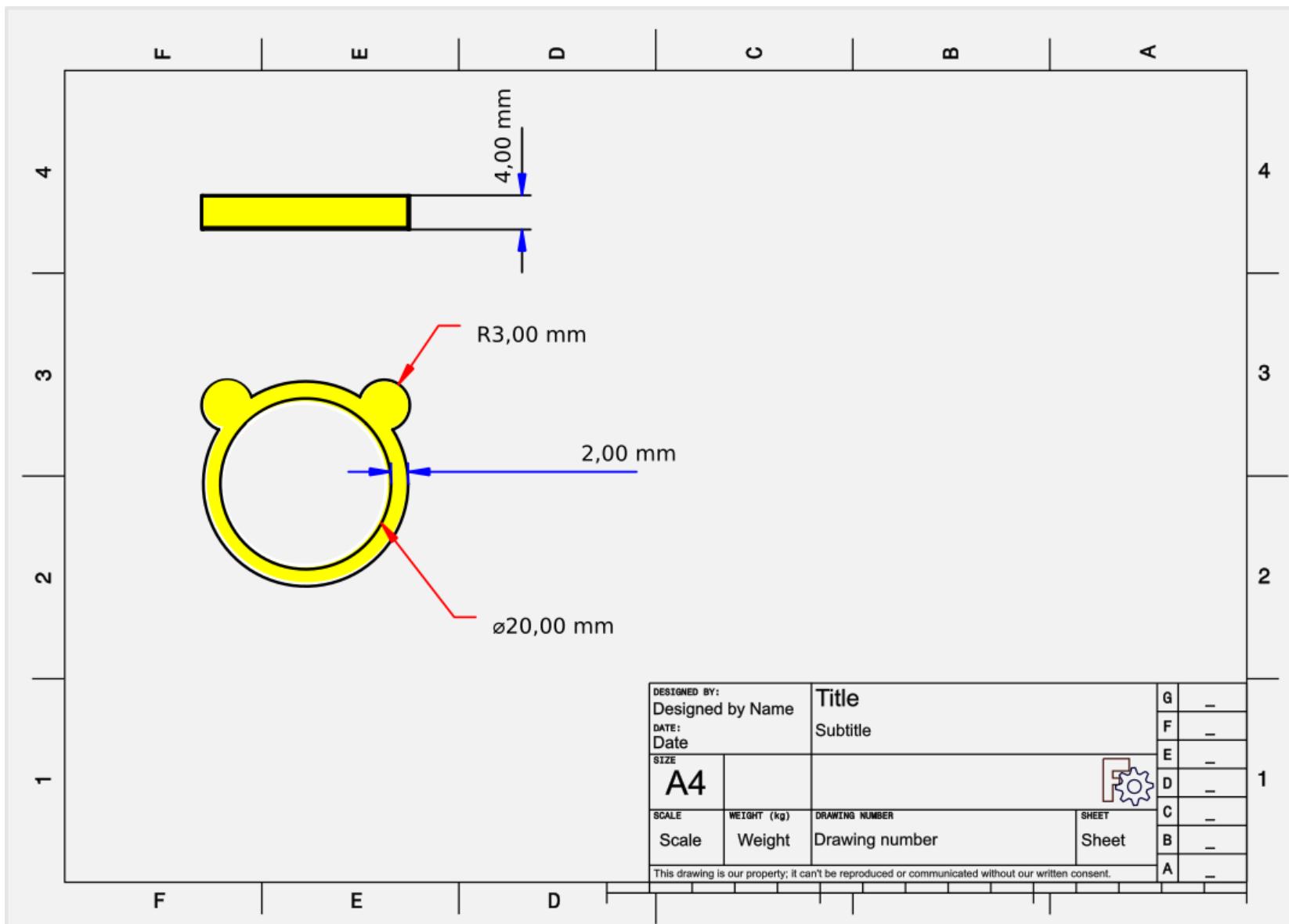
Table (Left Pane):

	A	B	C	D
1				
2		Radius	10	
3		height	4	
4				
5				
6				
7				
8				
9				
10				

Model (Right Pane):

The 3D model visualizes the parametric design. It consists of a central circular face with hands, surrounded by three concentric rings. The rings are colored in a gradient from light gray to dark gray. The model is displayed against a dark blue background.

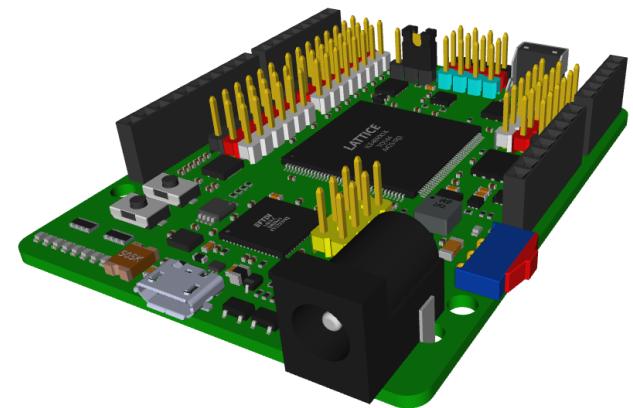
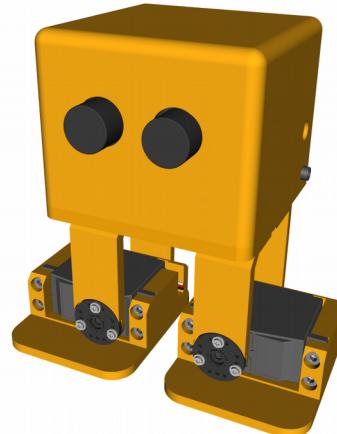
Demo 5: Drawings



May the FreeCAD be with you!



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