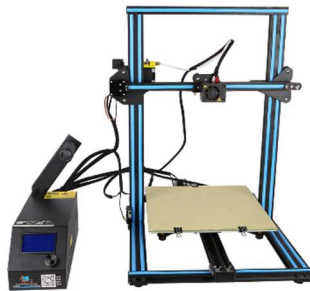


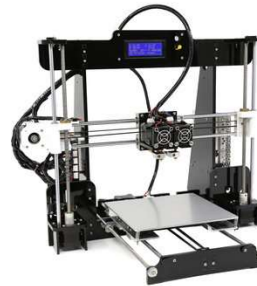
## 3D PRINTERS

Buinho currently possesses nine (9) FDM and one (1) DLP 3D printers that can be used by the staff members, residents and educators.

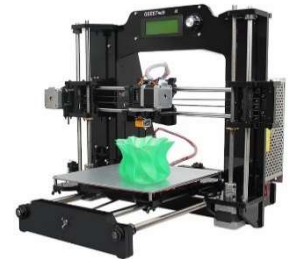
CR - 10S (1x)



Anet A8 (2x)



Geetech Prusa i3B (2x)



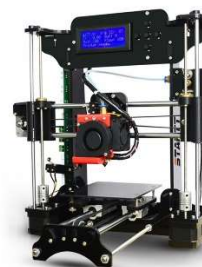
### SPECS

Resolution	100 microns	100 microns	100 microns
Heated Bed	Yes	Yes	Yes
Built Volume (xyz)	300x300x400	220x220x240	200x200x180
Printable material(s)	ABS, PLA, PETG	ABS, PLA, PETG	ABS, PLA, PETG
Filameter diameter	1.75 mm	1.75 mm	1.75 mm

Blocks Zero (1x)



Startt (3x)



Anycubic Photon (1x)



### SPECS

Resolution	40 microns	100 microns	20 microns
Heated Bed	No	No	na
Built Volume (xyz)	120x140x120	120x140x130	115x65x155
Printable material(s)	PLA	PLA	Photopolymer resin
Filameter diameter	1.75 mm	1.75 mm	na

## OTHER FABLAB EQUIPMENT

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The fablab equipment are located in the Buinho house. For security reasons some equipment has restricted access and can only be used with the supervision of a technician (CNC and Lasercut).

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### CNC MILL

#### Inventables X-Carve



#### SPECS

Spindle	Dewalt 26200 (900 Watts)
Spindle velocity	16000 - 27000 RPM
Bed Size (in mm)	1000 x 1000
Material(s)	Wood, MDF, Acrylic, Circuit Boards, Foam Core, Plastic, Cork, Aluminum, and other soft metals
3D Capability	Yes
Software	Easel

## VINYL CUTTER

### Liyu SC631-A 28



#### SPECS

Cutting Size	630mm
Driver	Stepper Motor Control
Resolution	0.025 mm/Step
Max Cutting Speed	800 mm/sec
Max Pressure	800 grs
Material(s)	Vinyl, paper, cardboard, vellum, heat transfer materials, wax paper, fabric
Software	SignCut Pro

## LASER CUTTER

### 60W CO2 Laser cutting machine



### SPECS

Maximum work size	700 x 500 mm
Power	60W CO2 tube
Driver	Micro Stepping Motor
Resolution	1000 DPI
Max Cutting Speed	1000 mm/sec
Automated bed platform	Yes - 190 mm
Auto Focus	No
Material(s)	wood, plywood, cork, mdf, bamboo, plexiglass, acrylic, crystal, leather, rubber, fabric, marble, ceramics, glass, paper, cardboard, etc
Software	RDWorks

## INDUSTRIAL WELDER

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### SPECS

Type	MIG
Power	135A - 6200W
Gas type	Argon + without gas
Maximum wide of wire reel	0.9 mm

## SEWING MACHINE

### Jata MC695-2



### SPECS

Stitch designs	13 different stitch designs
Needle	Double needle function
Dimensions in cm	34x15x26
Power	70W

## 3D SCANNER

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### Microsoft Kinect



#### SPECS

Sensor	Colour and depth-sensing lenses; Tilt motor for sensor adjustment
Field of View	Vertical field of view: 43 degrees; Horizontal field of view: 57 degrees
Depth sensor range	1.2m - 3.5m

## AUDIOVISUALS

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Upon request some Cameras and audio recording equipment can be made available to our residents

### SLR CAMERAS

Canon 80D



Nikon 40D



### SPECS

Pixels	24 Megapixels	6 Megapixels
Video	Yes (Full HD; 30FPS; 60FPS)	No
Type	SemiPro DSLR	Hobby DSLR

### AUDIO MICROPHONES

Zoom H2n



Zoom H1





## EDUCATIONAL RESOURCES – PLAYGROUND ELECTRONICS BENCH

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We offer our residents all the conditions to work on electronics, with a separate micro makerspace just dedicated to these activities.

Buinho also pursues educational activities, namely coding and robotics to local kids of Messejana. The resources of our educational program (The Playground) is also available for us of our residents upon request and if not being used by our staff.

Codebits



Mbots



Raspberry Pi 3B



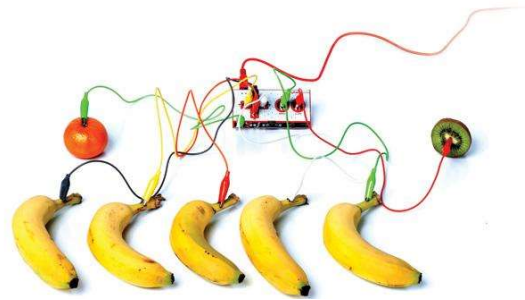
Arduino



Sensors (multiple kits)



Makey Makey



Variable Power supply



Soldering stations (multiple)

