

Warman parts support

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Mechanical Engineering Practice

SP 2 32015

Our mechanical and electrical workshops will provide most of items/materials you need for Warman project

Please at first contact and discuss with the workshops what they have and what you need

The following slides show some sample items what workshops have.

Mechanical items (in M building)

These items are located in the Warman cage in M building.

Go there and get material you need and cut into the desired shape.

You can contact Phil or Angelo for more assistance.



Wood, plastic, metal



Various recycled parts
(e.g. gears, wheels, pulleys, springs)

Mechanical items (in SCT 1-16)



Various extruded metal frames



Items are located in SCT 1-16.
Please go there and contact Nigel to discuss what you need.

Nigel may help you to cut into appropriate shapes as well.



Solid, hollow metal and plastic shafts

Electrical items (in SCT 1-09)



Lithium battery

Items are located in SCT 1-09. Go there and contact Patrick or Peter or Daniel to discuss about what you need.

Other electrical items such as sensors, switches, stepper/encoder motors are available.



Alkaline battery

Electrical items (in SCT 1-09)



Arduino microcontroller

Items are located in SCT 1-09. Go there and contact Patrick or Peter or Daniel to discuss about what you need.

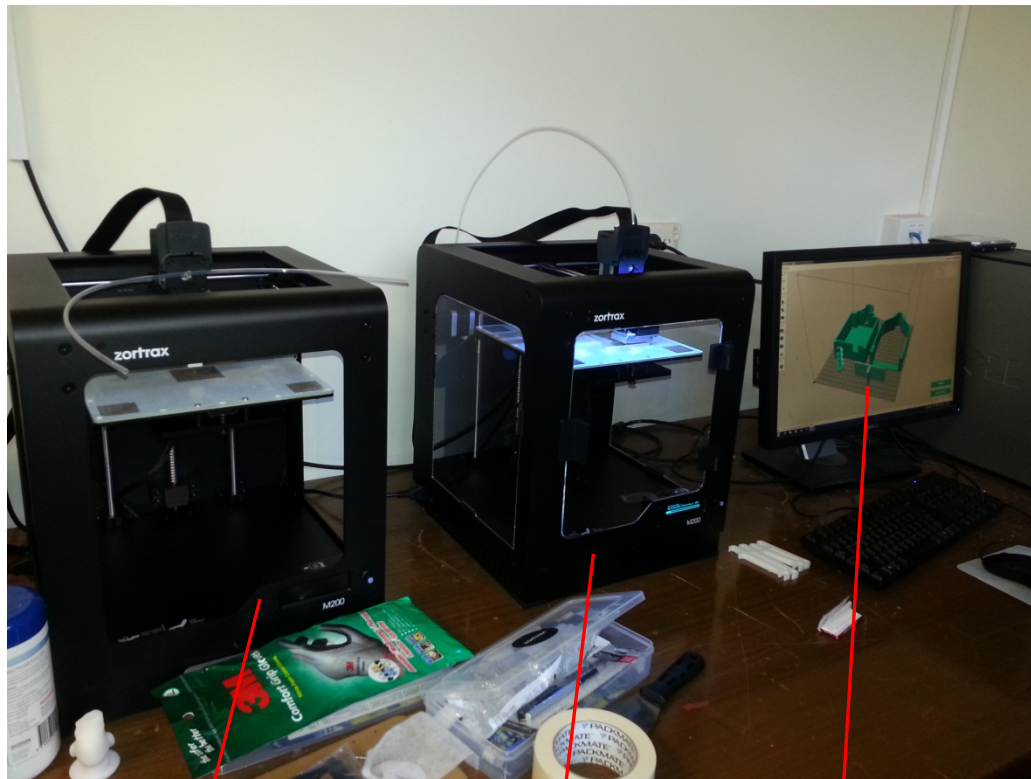
Other electrical items, such as sensors, switches, stepper/encoder motors are available.



DC motor

3D printing of Warman parts

Two 3D printers (Zortrax MT200) are available in SCT 1-09.



Printer 1

Printer 2

3D model of part
being printed

Capacity of printer:

Maximum size of part:

200mmx200mmx185mm

The printer can accept STL file of the model.

To request for any 3D printing of parts, you must send both Solidworks and STL files of your part to engworkrequests@unisa.edu.au.

The subject of email would be *'Warman 3D printed parts'*

Tech guys will contact you once parts are done.

Please try to make your design simple and small for easy setup and quick printing

Request for making parts by technical staff

For any special parts which you cannot make by yourself, technical staff can help you to make the parts.

What you need to:

- Prepare the engineering drawings of the parts
- Submit the job request with drawing to engworkrequests@unisa.edu.au with subject titled 'Warman parts'
- You may also contact ***Phil or Angelo*** in M building or ***Nigel*** in SCT 1-16 to discuss about the parts you want to produce by machines.

Sources of Electronic Components

Get more information on motors, batteries, sensors -

- www.sparkfun.com
- www.Polulu.com
- www.robotgear.com.au
- www.jaycar.com.au
- www.dealextreme.com
- www.adruino.cc