



FABRICATION LABORATORY
FOR SOCIAL INNOVATION



Academy

Co-working Lab

Contract Services + Shop

Who we are referring to

Machines

Disciplines

Partnerships

Team



We are a group of social entrepreneurs, architects, engineers, and designers working together to develop innovative models and solutions to challenging and systemic social issues.

We have created Astrolab - a platform that provides access to technology, education, and mentorship to empower others with the tools and skills to catalyze positive social change. Through our offerings, we seek to serve makers, students, organizations, and entrepreneurs, we are interested in ideas, initiatives, and enterprises that push boundaries and have the potential to shape a radically better world.



AstroLab

FABRICATION LABORATORY
FOR SOCIAL INNOVATION



Access to Education

Academy

Hands-on workshops and classes focused on digital fabrication and STEAM education.



Access to Expertise


Contract Services and Shop

Our team of experts can provide design, engineering, and fabrication services to bring a product into life.





Machines

 **3D Printing + Scanning**
Ultimaker 3, Zortrax M200, Prusa i3 MK2, Microsoft Kinect



Ultimaker 3

Print Head: Dual extrusion print head
Build Volume:
Left + Right nozzle: 215 x 215 x 200 mm
Dual material: 197 x 215 x 200 mm
XYZ Accuracy: 12.5, 12.5, 2.5 micron
Supported Materials: Nylon, PLA, ABS, CPE, PVA

File types: STL, OBJ and 3MF
Usage: Design, Jewellery, Architecture, Mechanical Engineering, Mechanical parts and much more.



Zortrax M200

Print Head: Single
Build Volume: 200 x 200 x 180mm
XY Accuracy: 1.5 microns
Y Single Step: 1.25 microns
Supported Materials: PLA, ABS, Z-ABS, Z-ULTRAT, Z-GLASS, Z-HIPS, Z-PETG, Z-PCABS, Z-ESD, Z-ASA Pro, Z-PLA Pro

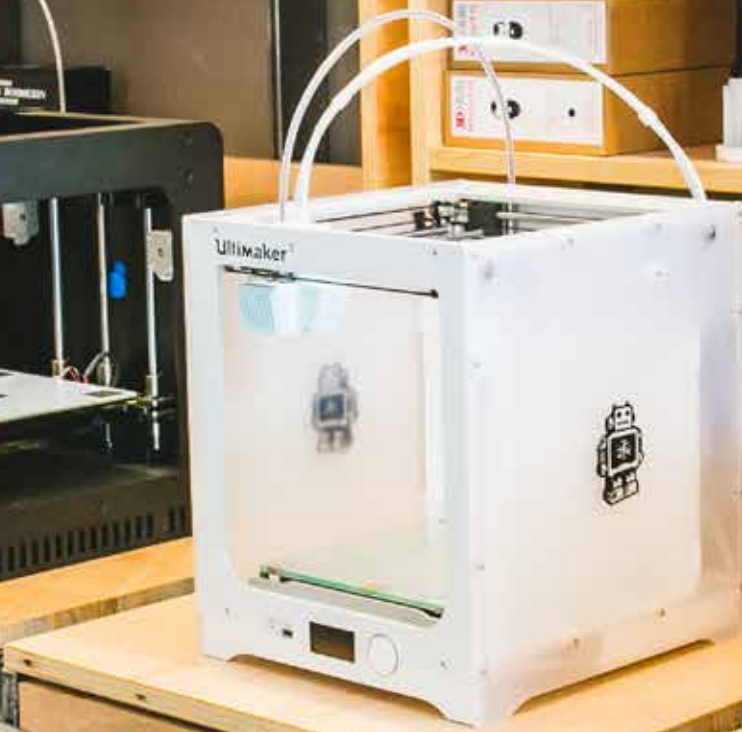
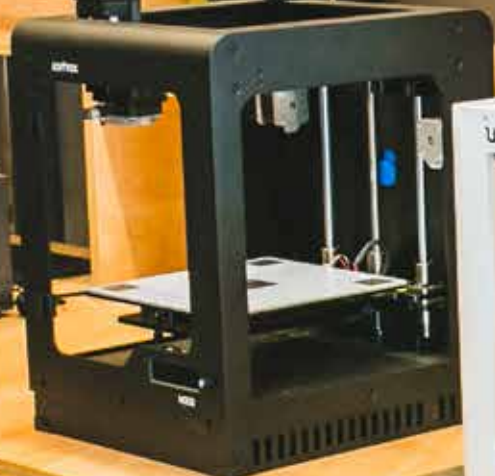
File Types: STL, OBJ, DXF, 3MF
Usage: Design, Jewellery, Architecture, Mechanical Engineering, Mechanical parts and much more.



Prusa i3 MK2

Print Head: Single
Build Volume: 250 x 210 x 200 mm
Z Layer accuracy: 5 microns
Supported Materials: PLA, ABS, PET, HIPS, Flex PP, Ninjabflex, Laywood, Laybrick, Nylon, Bamboofill, Bronzefill, ASA, T-Glase, Polycarbonates

File Types. STL, OBJ





Laser + Vinyl Cutting

BRM 6090 Laser, Roland CAMM GS-24



BRM 6090 Laser Cutting Machine

Work Surface: 900 x 600 x 230 mm
Supported Materials: Metal (blanc), Metal with coating (paint, anodised), Felt and foam, Glass and mirrors, Wood, Cardboard and hardboard, Ceramic and porcelain, Cork, Leather, MDF, Natural stone, granite and marble, Paper, Textile, Acrylics, Plexiglass, PMMA, Polyester, Polypropylene, Polystyrene, PVC and PVC-containing synthetics and much more.

File types: DXF, AI, PLT, DST, DSB



Roland GS-24 Vinyl Cutter

Loadable Material Width: 50 to 700 mm
Maximum cutting area Width: 584 mm, Length. 25000 mm
Maximum cutting thickness: Up to 1 mm
Supported materials: vinyl, paint mask, reflective vinyl, twill, heat transfers, sandblast material
Accuracy: ± 0.1 mm

File types: AI, EPS, CDR



CNC Mill

Roland SRM-20 Desktop Milling Machine



Roland SRM-20 Desktop Milling Machine

Cutable material. Resins such as chemical wood and modeling wax, substrates for machining and much more
Working area. 203.2 (X) x 152.4 (Y) x 60.5 (Z) mm
Loadable Workpiece Weight. 2kg

File types: CAD file formats like STL, DXF, Rhino 3D Model + IGES





Electronics

Arduino, Raspberry Pi, Microcontrollers, Sensors



Hand Tools

Mechanical Tools, Electrical Tools, Power Tools, Desktop Tools, Pneumatics, Consumables + Accessories



Over 170 tools are set and ready to be used.

Bench Drill, Bench Grinder, Dremel, Angle Grinder, Corded Drills, Orbital Sander, Digital Scale, Retractable Hose, Anvil, Pliers, Screwdrivers, Hammers, Saws, Clamps, Spirit Levels, Putty Trowels, Strip Brushes, Drill Sharpeners, Multimeter, Safety Specs + Gloves, Water + Dust Vacuum Cleaner and many more.

Disciplines



Robotics

Digital Fabrication
(CAD/CAM)

Electronics
+ Coding

Fashion

Entrepreneurship

Graphic
+ Product
Design

Sustainability

Astronomy

Craftsmanship

