



# PERTH ARTIFACTORY INC.

ANNUAL REPORT  
2023 – 2024



# A WORD FROM OUR CHAIR

Over the past year, our commitment to fostering a vibrant and inclusive makerspace has led to remarkable achievements. It is both an honour and a privilege to have assumed the role of Chairman in March 2024, following in the footsteps of dedicated predecessors. I am grateful to Beau Scott for his invaluable contributions over the years, not only as Chairperson but also as a fellow Member and personal friend, whom I had the pleasure of meeting through the Perth Artifactory.

This past year, we've seen significant progress in expanding our community, welcoming new and enthusiastic members, who bring fresh ideas and energy. Generous donations and sponsorship opportunities have enabled us to add and significantly upgrade equipment, as well as make substantial improvements to our workshop areas. These enhancements not only improve our members' experience but also make our space more attractive to visitors and event hosts. As a result, we've strengthened our ties with local businesses and similar groups, spreading the maker spirit and fostering new community connections.

As we celebrate our 15-year anniversary this year, it marks a milestone of our dedication and growth. We are committed to further improving and upgrading our facilities, offering more educational and upskilling opportunities, and attracting passionate new members who share our love for making. Our goal is to continue growing and deepening our roots within the community, solidifying our status as Perth's Premier Makerspace.

Our transformative journey has also prioritised mental health and support initiatives, ensuring a nurturing and safe environment. The introduction of new safety requirements, such as tool risk categories and member inductions, has been a long time coming. It reflects our commitment to teaching safe practices and has significantly reduced safety incident reports.

The future of the Perth Artifactory is bright, thanks to the dedication of our members, volunteers, and supporters. Let's keep building something amazing together.

- Johannes Chuah



Johannes Chuah (L) and Beau Scott (R)



# SUPPORTING THE COMMUNITY

## OPEN TO THE PUBLIC

The Perth Artifactory is open to the general public for events and workshops, groups, casual hackers, and makers.

Our volunteers are dedicated to providing and maintaining tools, workspaces, machines, and equipment that few people would otherwise have access to.

We are focused on providing a place where people of all backgrounds with an interest in technology or the arts can come together to work on projects, share ideas, and socialise.

## A DIVERSE COMMUNITY

The Artifactory prides itself on welcoming people who find it difficult to engage with mainstream community services. We particularly pride ourselves on engaging –

- ▶ People of all ages, genders, and orientations
- ▶ Neurodiverse people
- ▶ People with disabilities

## OUR PURPOSE

The dominant purpose of the Association is to advance mental health and prevent or relieve social isolation.

The Association pursues this purpose by encouraging and facilitating creative use of technology at the Association's physical premises, where the Association supports individuals to undertake activities, or work on projects, in the company of others.

The objects of the Association, which fulfil its purpose, are to:

- ▶ Promote the creative use of technology
- ▶ Establish, maintain, and equip a shared work space for our members
- ▶ Provide work space, storage, and other resources for the creative and artistic use of technology
- ▶ Foster a collaborative, inclusive, safe, and creative environment for artistic and technological projects
- ▶ Educate and train our members in skills relevant to our purpose
- ▶ Organise educational, social, and cultural events to promote the creative use of technology
- ▶ Raise funds to support our purpose
- ▶ Communicate and collaborate with others with similar objectives



## ARTIFACTORY TURNS 15

From our original (short-lived!) venue in Mount Lawley to our current space in Osborne Park, the Artifactory has continuously evolved to meet our members' needs.

Despite all the changes, the Artifactory of today has the same mission as the Artifactory of 2009 - to be Perth's Premiere Makerspace, a place and a community that fosters the joy of making.

We look forwards to many more years of making to come!

## ARTIFACTORY IS NOW A DGR

The Perth Artifactory Inc. is now endorsed as a deductible gift recipient!

This means we are now eligible to receive tax-deductible donations - a huge benefit to our financial sustainability.

We foster a safe and supportive community, where diverse people can socialise, learn new skills, and work on projects in the company of others. Our DGR endorsement as a Community Shed recognises the benefit this brings to our members and the general public.

Our DGR application was a decade in the making, with a huge burst of activity in the last two years to get it over the line. Thanks especially to Lewis, Renae, Fletcher, Joshua, Ilke, Alec, and Megan for all their hard work!



# EVENTS & WORKSHOPS

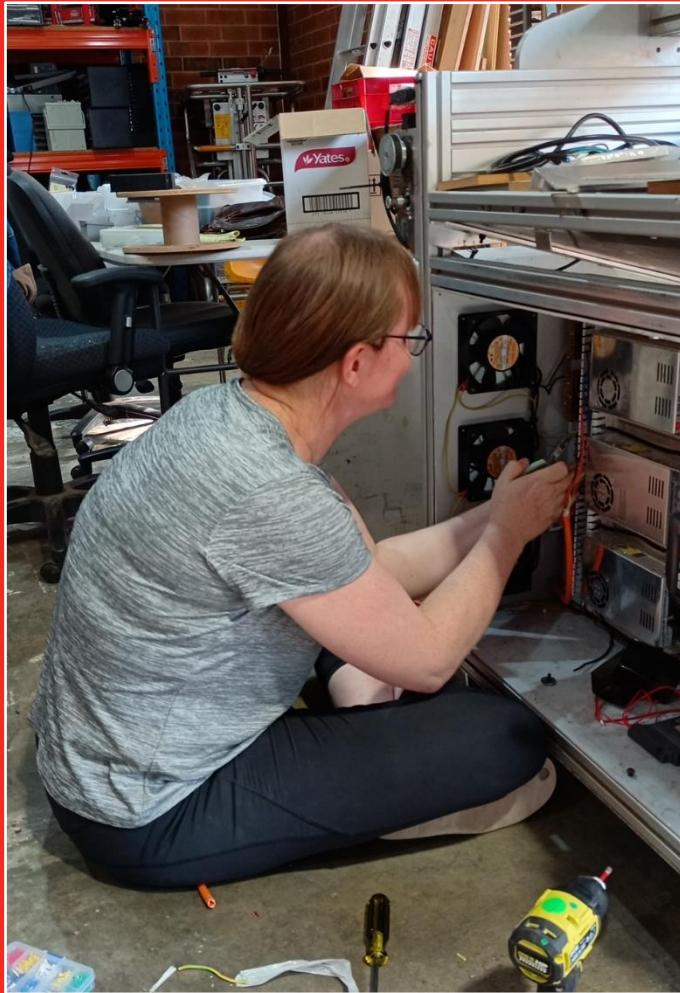
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POWER TOOLS



# EVENTS & WORKSHOPS



Financial Year	Artifactory Member Run	External Party Run	Total
2019 - 2020	181	45	226
2020 - 2021	171	28	199
2021 - 2022	149	34	183
2022 - 2023	171	28	199
2023 - 2024	214	44	258

Events	Host	Number Held
General Hacking Day	Artifactory	52
Arduino U	Artifactory	26
Talk Shop Wednesday	Artifactory	26
Perth Hackers Open-Source Afternoons	Perth Open Source Hackers & Perth Linux Users Group	11
Open Days	Artifactory	12
Laser Maintenance Meetup	Artifactory	8
Metal Monday	Artifactory	26
Leathercraft Workshops	Western Leathercraft	22
Modular Synth DIY Workshops	West Australian Modular Synthesizers	11
Woodworking for Women	Artifactory	52
Board Games	Artifactory	12

# EVENTS & WORKSHOPS

2023 - 2024



## GENERAL HACKING DAY

Every Saturday our volunteers open our workshop to the public to work on (or “hack on”) any project imaginable, from wooden bowl turning to hybrid telescope-antennas!

These sessions are an ideal time for the public to come see and use our facilities, with lots of volunteers around to offer training, advice, or just have a good old fashioned chat.



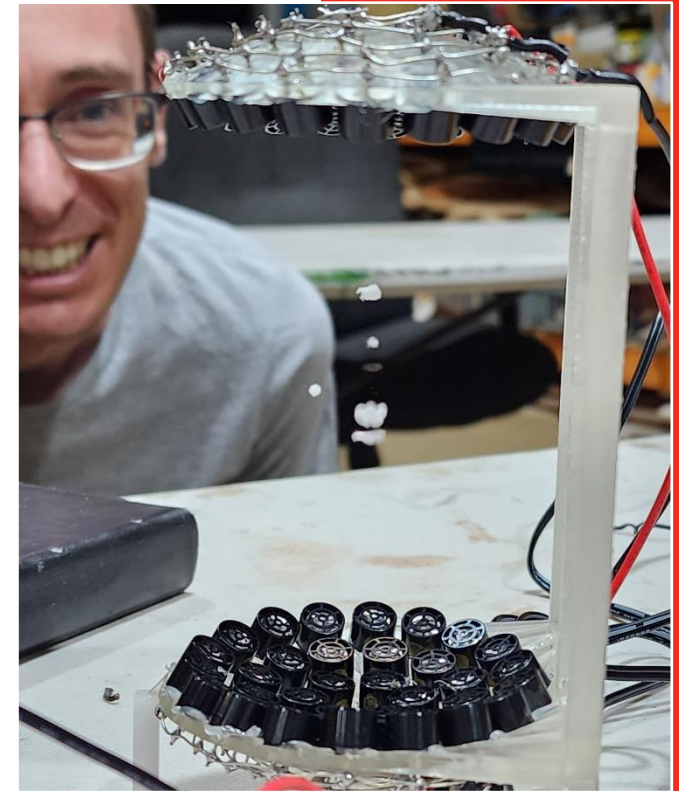
## ARDUINO U

The Artifactory continues to host the most popular public meetup for electronics enthusiasts in Perth!

Arduino U is a great event for people taking their first steps into the world of electronics. At this event participants can meet likeminded individuals, learn new skills, and work on their projects with experienced, easy-going experts.

## PERTH HACKERS OPEN SOURCE AFTERNOONS

The monthly PLUG + POSH Hack Afternoon is a language and platform-agnostic hack session. Bring your favourite, or most interesting project and a love of code, or any other tech project that you're interested in.





# EVENTS & WORKSHOPS 2023 - 2024



## WOMEN'S WOODWORKING

Wednesday mornings at the Artifactory are dedicated to gathering women to work on woodworking projects, learn new skills, be trained in the use of tools and machinery, and share ideas.

The group welcomes people with various levels of experience, including some using power tools for the very first time.

The focus on coming together to support each other to create things in a safe way and share our experiences. This event is perfect for gaining familiarity with tools, and building the confidence to complete woodworking projects independently.

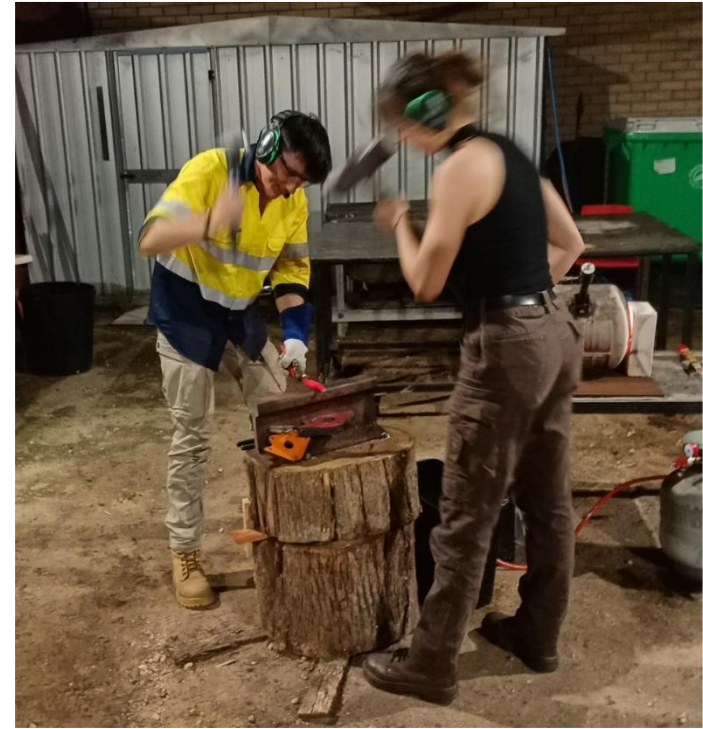


# EVENTS & WORKSHOPS 2023 - 2024

## METAL MONDAY

The space is alive - with a symphony of swarf and sparks!

Metal Monday is the time for all things metal, including milling, turning, welding, grinding, and forging.



# EVENTS & WORKSHOPS

## 2023 - 2024



## TALK SHOP WEDNESDAY

Every second Wednesday night, it's "tools down" for an evening of food, conversation and companionship.

Seeking to provide more than just a workshop space for our members, this event brings the entire Artifactory community together for a night focusing on people, rather than projects.



## LASER MAINTENANCE MEETUP

Our laser cutters are maintained by a dedicated group who meets regularly to attend to their needs! Experienced laser maintainers teach new hands how to clean, adjust, and recover from the inevitable mistakes that happen while using the lasers.



## BOARD GAMES

These monthly events are a low-key, social event for Artifactorians to take a break from the workshop and enjoy a board game or two on a Saturday afternoon.

With a focus on exploring new games and friendly competition, everyone's a winner!



# EVENTS & WORKSHOPS 2023 - 2024



## DIY SYNTH WORKSHOPS

Hosted by WAMod: West Australian Modular Synthesizers and often known simply as “ModSynth”, this workshop is one of the Artifactory’s most popular workshops. Enthusiasts of analogue “eurorack” style synthesizers meet up and build modules. These modules are wired together in a rack and a cacophony of sounds ensue!

## LEATHER CRAFT WORKSHOP

This workshop provides lessons in traditional and modern leathercrafting by Western Leathercraft. Attendees are taught to make their own leather accessories like wristbands using common leathercrafting tools. The classes provide the skills necessary to successfully manufacture your own creations!



# ARTIFACTORY OUT & ABOUT



## CURTIN ROBOTICS

The Artifactory and the Curtin Robotics club teamed up to run a soldering workshop at Curtin University.

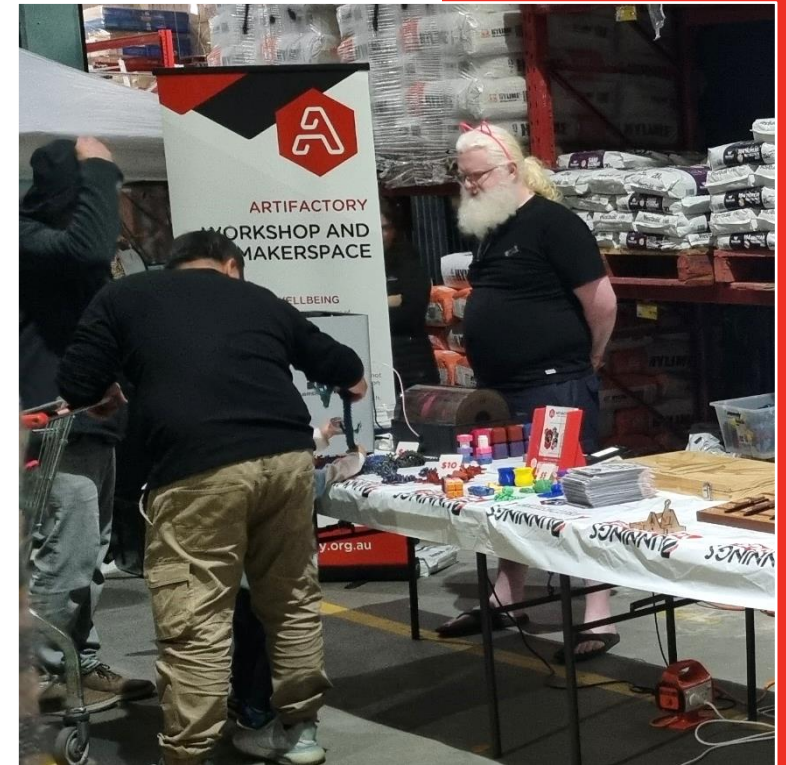
Students new to electronics were grouped up with experienced volunteers, who guided them through the process of soldering and assembling a simple circuit board.

Participants gained soldering skills, and confidence to undertake projects that require soldering.



## BUNNINGS COMMUNITY DAYS

The Artifactory was invited this financial year to participate in various community days run by Bunnings. Members pitched in to create items that represented the Artifactory's capabilities and creativeness of our community. These events also allowed for us to promote the Artifactory outside of our regularly scheduled Open Days.





## PRUSA USER GROUP MEETUP

The Artifactory was honored to host the WA Prusa User Group Meetup hosted by Josef Prusa. This event saw Prusa enthusiasts from Western Australia gather at the Artifactory to learn from Josef Prusa and his team, while also getting to network with like minded individuals.



## PERTH SUPANOVA

The Artifactory returned to exhibit at Perth Supanova, where we were able to show off all the things you can do in a makerspace! We talked to hundreds of people who were keen to learn about the Artifactory.

The impact of this event is a testament to the work of our wonderful members in making projects to demonstrate the various ways to engage with the Artifactory, producing items to sell, and giving their time during the event itself to spread the word of the Artifactory.



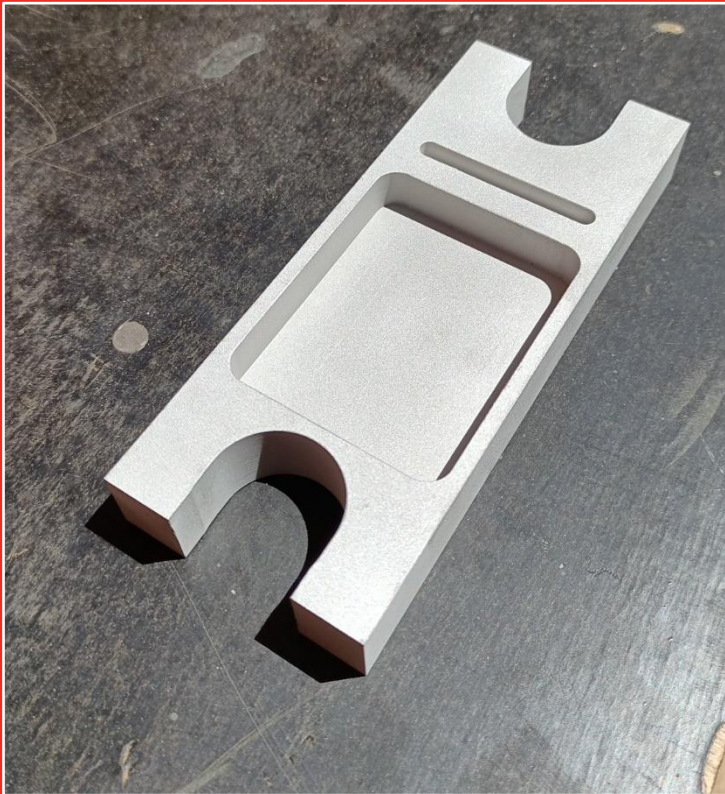
# SHOW & TELL



## SHOW & TELL

Artifactory members make some incredible things. Please take a look and be inspired to make your own creations! Always remember the Artifactory motto:

*"Don't think, make!"*



Coffee machine part - milled and sandblasted - Jacob Monteath

# GLASS ETCHING

Jo and Ross Minney



SHOW & TELL





A work in progress...

## BACKGAMMON BOARD

Emilie Perez's first woodworking project



The finished product

SHOW & TELL



Quench hardening - Renae Currie



Planer/jointer repair - it works! Penny Wood





Stand-up sign - Ross Minney and Lewis Yip



Power wood carving - Vicki Nicholson



SHOW & TELL



A very Artifactory Christmas - Lewis Yip



"My first laser project!"



# ENHANCEMENTS TO **THE ARTIFACTORY**



# ENHANCEMENTS TO THE ARTIFACTORY

Another year of significant improvements to the tools and equipment available for use at The Perth Artifactory! We thank the generous member contributions of time and money that made all these improvements possible.



A freshly re-surfaced workbench

The Artifactory ethos has always included a strong community spirit of sharing and helping. Our members are always coming together to teach each other new skills as they work to improve the Artifactory's equipment and facilities.

This year's improvements, made possible by our members' generous contributions of time, materials, and know-how, include -

- Many new tools, big and small
- Big changes to the stage area and Z-lab
- New safety equipment to control airborne dust and welding flash
- New training and induction system
- Full redesign of our website and print advertising materials



Courtyard cleanup

# EQUIPMENT AND INFRASTRUCTURE FUND

A generous donor wanted to start a fund to pay for improvements to the space, particularly with a focus on making the space more comfortable to members, and more attractive to a wider range of potential new members.

Our campaign raised \$4,800 from members, which the initial donor doubled to \$9,600!

The fund is dedicated to maintaining and improving our equipment and infrastructure.

We spent \$1,500 from the fund in FY23-24, including -

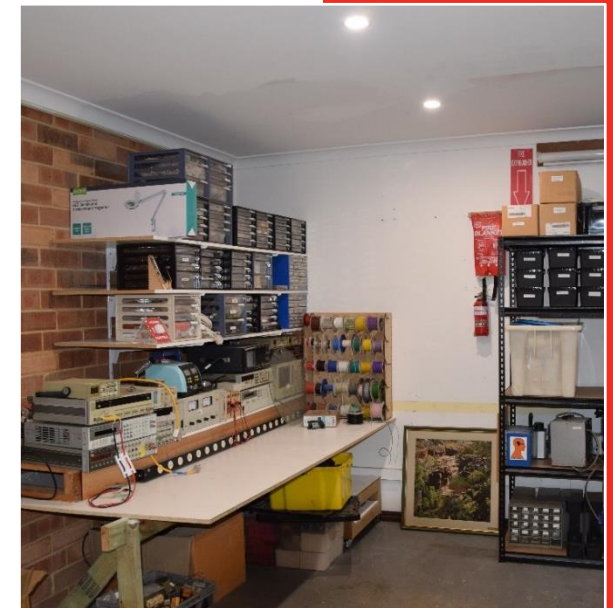
- Refurbishing the electronics and 3D printing lab
- Welding screens
- Metal detector for woodworking
- Air filter for the machine room
- Curtains to make the space look nice during events

Future planned projects include -

- Shade sails to cool down the courtyard during hot weather
- A new and improved machine room with better layout and dust extraction



Machine room air filter



Electronics bench

# CROWD FUNDED PROJECTS

“PledgeBot” is our platform where any member can propose a project for crowd-funding. This year, 25 donors pledged a total of \$11,782 towards new equipment and space infrastructure. Thanks to these generous donors, our members have lots of new equipment to make stuff with!

Project	Donors	Amount
Bambu Lab P1S 3D printer	8	\$ 1,749
Bambu Lab Printer AMS	4	\$ 585
Bench grinder sharpening guide	4	\$ 129
Big Red laser cutter - bed camera	5	\$ 220
Big Red laser cutter - controller upgrade	6	\$ 450
Biscuit Joiner	4	\$ 50
Carbide end mills	4	\$ 320
Design lab TV	1	\$ 499
Dial and test indicators	4	\$ 229
Drum sander	8	\$ 930
Electronics microscope	5	\$ 385
Ender 3 V2 Neo 3D printers	10	\$ 400
Equipment and Infrastructure fund	8	\$ 4,900
Metal lathe chucks	6	\$ 329
New CNC router bed	2	\$ 162
Plunge router and jigsaw	2	\$ 100
Raclette Grill	6	\$ 70
Soldering station	3	\$ 55
Welding screens	6	\$ 220
<b>Total for FY 2023-2024</b>		<b>\$ 11,782</b>



Carbide end-mills



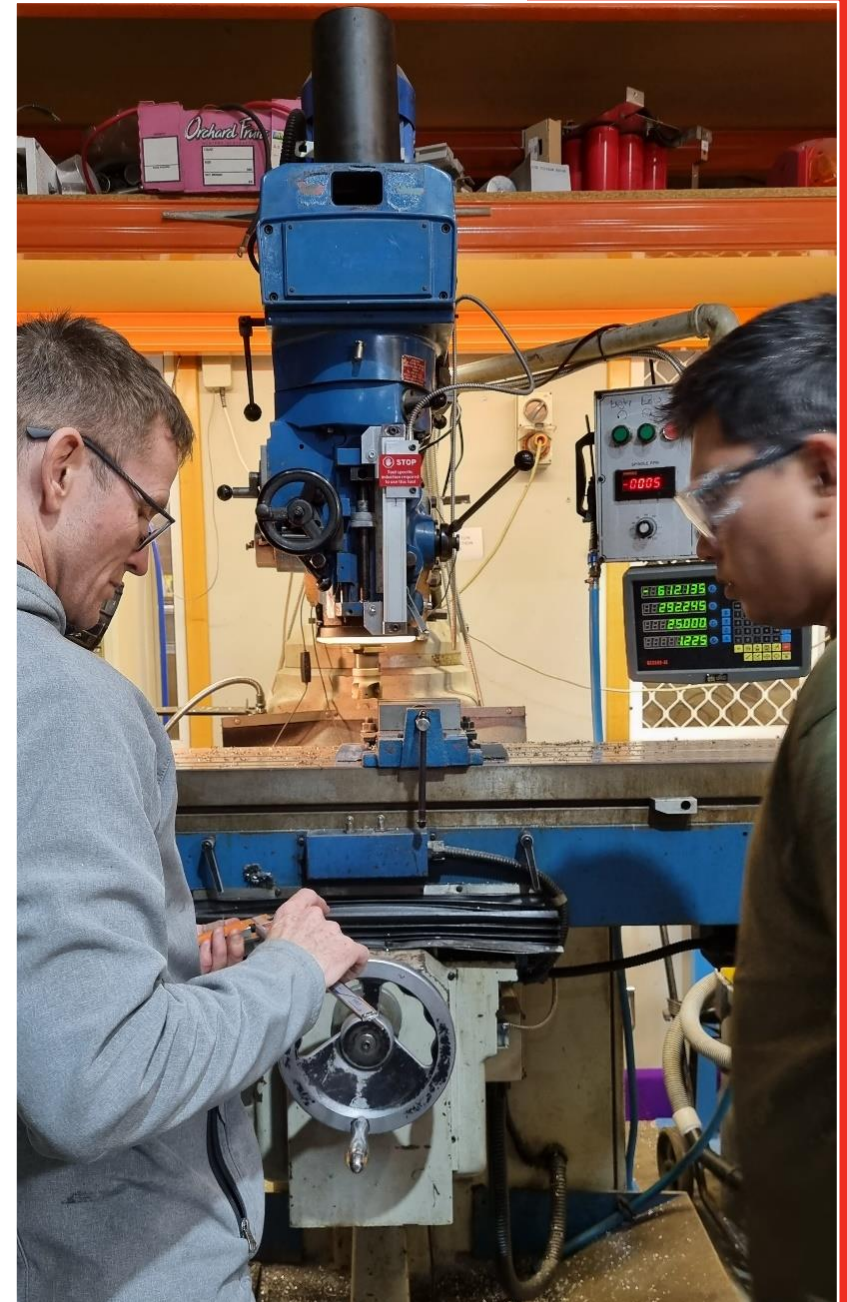
New lathe chuck and dial indicator

## EQUIPMENT TRAINING

In the latter half of the year, we implemented a new, tailored training system, designed to enhance tool proficiency and confidence amongst our members. Emphasizing micro-inductions, the system focuses on providing attendees with specific knowledge, training only on the tools they express a desire to use. The system has also reduced unnecessary volunteer workload and attendee information overload.



Checking tool induction status using the Artifactory's "Training Tracker" app



Metalwork training in progress

# 3D PRINTING

It's the Year of 3D Printing at the Artifactory, with our FDM printer line-up growing by leaps and bounds. First our members pitched in to buy a Bambu Labs P1S, and then Prusa gifted us a Prusa MK4 and a Prusa XL-5T. The new printers are fast, user-friendly, and multi-material capable - huge improvements on our previous printers! Our filament stock has also expanded to include dozens of different colours and materials, so our members can explore a wide range of creative options.

With more printers comes more maintenance, so we've established a new 3D Printers Subcommittee to take care of the printers. They're doing a great job of keeping the printers running and teaching people how to use them. Thanks to the inaugural subcommittee members - Fletcher, Sophie, Tom, Penny, and Ross, for making 3D Printing fun and accessible at the Artifactory!



New and improved 3D printing area - with new, custom-built printer bench

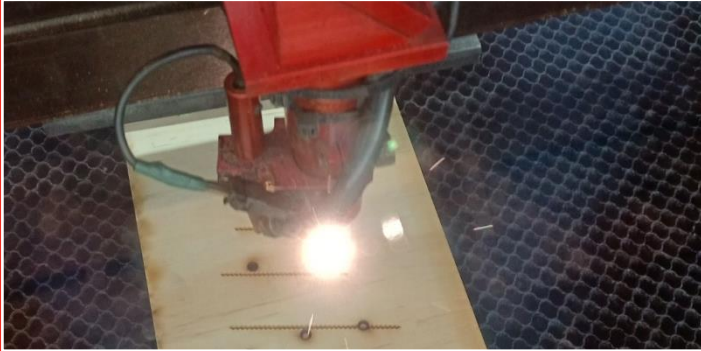


Holographic bed



Many types and colours of filament

# ENHANCEMENTS TO THE ARTIFACTORY



## BIG RED LASER CUTTER UPGRADES

Our Big Red laser cutter got a full controller replacement, letting us upgrade to the industry-standard Lightburn software. Lightburn is much easier to use and has many more features than our previous software - a big improvement.



## EXIT STAGE LEFT

With live music events having outgrown our venue, the stage was seeing little use. We farewelled the stage and carefully dismantled it, freeing up the space for other uses. The reclaimed wood has already become part of new furniture for the space - so the spirit of the stage lives on.





# FINANCIAL REPORT

# TREASURER'S REPORT

We started the financial year in a very tight position, while membership numbers were showing close to historical norms, costs have been going up substantially while we have made every effort to keep membership fees the same.

This meant that there was no money for any improvements to the space, or extra costs.

Finally getting approved for our Deductible Gift Recipient status allowed us to turn a corner in many ways. With donations now being tax deductible, we were able to fund a number of great new tools through member donations, increasing the value and appeal of our memberships.

It also allowed us to launch our Infrastructure Fund which has already shown benefits in repairing and setting up our new

3D Print and Electronics lab, installing air filtration in the machine room, as well as other general improvements.

Thank you to everyone who donated to our campaigns throughout the year, in particular, we received two separate \$10,000 donations.

These improvements have already had a flow on effect to membership numbers, which puts us in a positive and sustainable situation going forward. Another big thanks to everyone who has put time in to our promotional events, our monthly tours, or has supported our recruiting efforts in other ways, such as tool training and general support.

- Renae Currie



# INCOME / EXPENDITURE

Overall	2023-2024	2022-2023
Income	\$ 118,741.86	\$ 61,719.60
Expenditure	-\$ 87,329.45	-\$ 68,883.16
<b>Total</b>	<b>\$ 31,412.41</b>	<b>-\$ 7,163.54</b>

Income	2023-2024	2022-2023
Membership	\$ 56,814.10	\$ 40,189.60
Casual, drinks, tool use, other	\$ 20,406.82	\$ 15,047.90
Key bonds	\$ 3,987.99	\$ 2,224.78
Courses	\$ 1,843.03	\$ 1,376.34
Fundraising	\$ 479.75	\$ 507.89
Donations - Sponsored Memberships	\$ 540.00	\$ 405.00
Donations - Pledges	\$ 7,846.02	\$ 236.04
Donations - Infrastructure and Equipment Fund	\$ 14,804.49	\$ 0.00
Donations - Other	\$ 10,300.23	\$ 100.00
Containers for Change	\$ 159.10	\$ 168.60
Other	\$ 1,560.33	\$ 1,463.49
<b>Total</b>	<b>\$ 118,741.86</b>	<b>\$ 61,719.60</b>

# INCOME / EXPENDITURE

Expenditure	2023-2024	2022-2023
Lease and Variable Outgoings	-\$ 53,283.60	-\$ 51,012.70
Power	-\$ 4,057.61	-\$ 3,878.00
Insurance	-\$ 3,062.00	-\$ 2,972.74
Bar restock	-\$ 7,151.66	-\$ 2,916.65
Internet	-\$ 2,444.00	-\$ 2,686.51
Infrastructure and equipment	-\$ 3,111.79	-\$ 2,396.71
Tool purchases	-\$ 6,348.47	-\$ 393.95
TidyHQ	-\$ 890.00	-\$ 890.00
Waste	-\$ 1,071.62	-\$ 804.03
Bank Fees	-\$ 416.14	-\$ 618.48
Fundraising costs	-\$ 1,209.44	-\$ 0.00
Course costs	-\$ 67.00	-\$ 0.00
Bonds Returned	-\$ 2,547.92	-\$ 0.00
Promotions and Admin	-\$ 376.08	-\$ 313.39
Other	-\$ 1,292.12	-\$ 0.00
<b>Total</b>	<b>-\$ 87,329.45</b>	<b>-\$ 68,883.16</b>

# ASSETS & LIABILITIES

<b>Assets</b>	<b>30 June 2024</b>	<b>30 June 2023</b>
Accounts & Cash Balance	\$ 38,300.00	\$ 13,300.00
Guthrie St Lease Bond \$6,000.00	\$ 6,000.00	\$ 6,000.00
Assets (conservatively estimated & insured at 100K)	\$ 100,000.00	\$ 100,000.00
<b>Assets on 30th June</b>	<b>\$ 144,300.00</b>	<b>\$ 119,300.00</b>

<b>Liabilities</b>	<b>30 June 2024</b>	<b>30 June 2023</b>
24/7 Key Bond Held	- \$ 17,546.00	- \$ 15,741.00
<b>Liabilities on 30th June</b>	<b>- \$ 17,546.00</b>	<b>- \$ 15,741.00</b>

<b>Net Assets</b>	<b>30 June 2024</b>	<b>30 June 2023</b>
<b>Net Assets on 30th June</b>	<b>\$ 126,754.00</b>	<b>\$ 103,559.00</b>

# MEMBERSHIP

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Full Memberships	34	35	42	31	44	54
Concession Memberships	28	29	32	20	32	35
Band Memberships	3	3	2	3	2	3
Associate/Other Memberships	5	6	0	1	3	0
<b>Total</b>	<b>70</b>	<b>73</b>	<b>76</b>	<b>55</b>	<b>81</b>	<b>92</b>



## COMMITTEE 2023-2024

Chair:	Beau Scott (Jul – Mar)
	Johannes Chuah (Mar-Jun)
Vice Chair:	Fletcher Boyd
Secretary:	Lewis Yip
Treasurer:	Renae Currie
Deputy Secretary:	Tegan Murphy
Deputy Treasurer:	Ben Connor
Ordinary Committee Member:	Joshua Rospondek



## THANKS TO...

On behalf of the Artifactory community, the Management Committee thanks everyone who has donated their time, resources, and goodwill to support the Artifactory this year.

## SUBCOMMITTEES

- ▶ 3D Printers
- ▶ Associate Memberships Panel
- ▶ Infrastructure
- ▶ IT
- ▶ Lasers
- ▶ Promotions

## OFFICERS

Events Officer: Johannes Chuah

Membership Officer, Quartermaster: Fletcher Boyd

Rehearsal Room Coordinators: Johannes Chuah, Martin Gonzalez

The Ambassador: Magnus Danger Magnus

## EVENT HOSTS

Bannon, Boyd, Chuah, Connor, Currie, Dalstra, Fraser, Greenhill, Harris, Hodges, Kougianos, Leitch, Murphy, Navin, Perry, Samuels, Thompson, Williamson, Wood, Yip, and the many others accidentally omitted!

## SPECIAL THANKS

- ▶ Ben Moore – CNC router (Swarf XL), roof repairs, printer bench
- ▶ Penny – CNC router (Swarf XL), vending machine, printer bench
- ▶ Kamil – Welding tutorials, roof repairs
- ▶ Tom and Sophie – 3D printer wrangling
- ▶ Everyone who helped with Supanova and the Prusa meetup





**ARTIFACTORY**  
PERTH'S MAKER SPACE

**PERTH ARTIFACTORY INC**

8/16 Guthrie St  
Osborne Park WA 6017

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E: [info@artifactory.org.au](mailto:info@artifactory.org.au)

S: [perart.io/slack](https://perart.io/slack)

**ABN: 16 847 853 023**

Perth Artifactory Inc is a not-for-profit incorporated association in Western Australia and registered as a charity with the Australian Charities and Not-for-profits Commission.