

horizontal line

Droid Building

AllianceOfDroids.org.au/AoD/Jedi-Order/Droidologists

AllianceOfDroids.org.au/AoD/Droidlings/IrisDroidology

**─**

# Droids

* Sp-D2
* A0-D2 / R3-S6 / Goldie

Droid Builders

* IrisDroidology (Limo Arbuckle)
* Ian Arbuckle
* Pavma Goper (Michael Pavlinoch)
* Joel Pearman (former) (Inclusion WA)
* Yoann Roy (Inclusion WA)

# 

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# Main Info

## This Doc is for...

1. Getting down ideas for Droid Building stuff
2. Uploading files, links, and media that can help with the building of droids

## We need to...

* **Each group/department on the portal has a special place called “Droidfolios” or docs - don’t confuse with google docs**
  + This allows us to use our custom fonts (which we can’t as of yet with Google Docs)
  + We need to backup/upload all content from the google doc to to the droidfolio in our department called “Collaborative Building”

## Droids - Major to-dos

1. A0-D2 -
2. Sp-D2 - Marcduinos, Teeces logic lights, motors

## Venues

* Perth Artifactory - artifactory.org.au - 8/16 Guthrie St, Osborne Park WA 6017

# A0-D2

## Blueprints

All blueprints for A0-D2 can be found [here](http://allianceofdroids.org.au/aod/droidfolios/iris-droidfolio-2/):

The original, unaltered plans for styrene droids from the R2-D2 Builders club can be found [here](https://astromech.net/forums/downloads.php?do=cat&id=8)

## Parts - Physical

### 2017

Using the $1.1K we got from the CLPG.org.au, we were able to buy styrene and Weld-on #3 from WAPlastics and the Artifactory membership.

**Sites:**

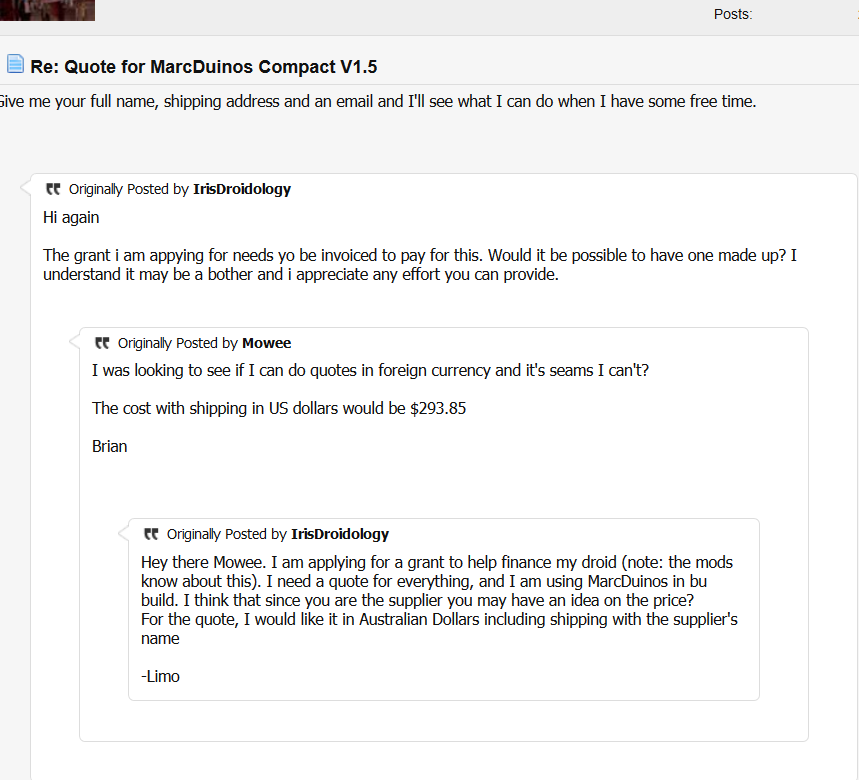
* [www.waplastics.com.au](http://www.waplastics.com.au) - styrene and weld-on
* [www.artifactory.org.au](http://www.artifactory.org.au) - venue for building with equipment
* [www.clpg.org.au](http://www.clpg.org.au) - grant

### 2018

After using up a lot of styrene in the process of creating the right plans, we will be needing to fill in another grant application form to get the following items:

* More styrene
* MarcDuinos (electronics)
* Teeces Logic Lights
* More to come

**MarcDuinos Quote**

****

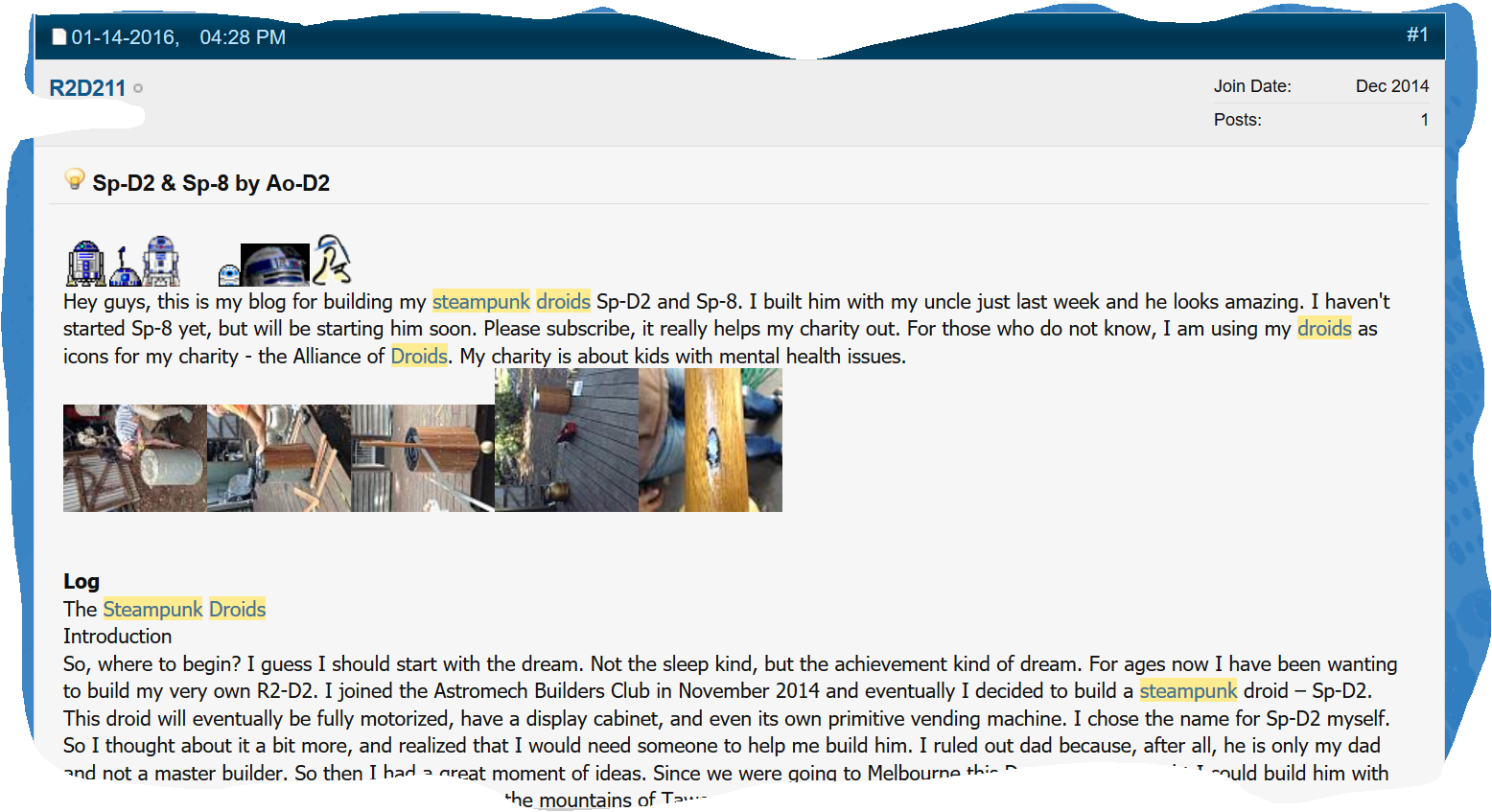
# Sp-D2 (The Styrene Droid)

## Build Log

### Original Log - R2-D2 Builders Club

* Link: https://astromech.net/forums/showthread.php?26569-Sp-D2-amp-Sp-8-by-Ao-D2&highlight=steampunk+droids

R2-D2 (2)R2-D2 LFSR2 Leia MessageR2-D2R2-D2 DomeR2 Builders Logo



Hey guys, this is my blog for building my steampunk droids Sp-D2 and Sp-8. I built him with my uncle just last week and he looks amazing. I haven't started Sp-8 yet, but will be starting him soon. Please subscribe, it really helps my charity out. For those who do not know, I am using my droids as icons for my charity - the Alliance of Droids. My charity is about kids with mental health issues.

![Click image for larger version. 

Name: IMG_2324 - Copy.jpg 
Views: 90 
Size: 152.4 KB 
ID: 29869](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAYAAAAfFcSJAAAADUlEQVR42mP4//8PAwAI9gL7rVpmuwAAAABJRU5ErkJggg==)![Click image for larger version. 

Name: IMG_2336.jpg 
Views: 79 
Size: 146.5 KB 
ID: 29870](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAYAAAAfFcSJAAAADUlEQVR42mP4//83AwAI9AL6QlVpdgAAAABJRU5ErkJggg==)![Click image for larger version. 

Name: IMG_2354.jpg 
Views: 87 
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ID: 29871](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAYAAAAfFcSJAAAADUlEQVR42mP4//8fAwAI+gL9Kv2mJAAAAABJRU5ErkJggg==)![Click image for larger version. 

Name: IMG_2375.jpg 
Views: 88 
Size: 142.9 KB 
ID: 29872](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAYAAAAfFcSJAAAADUlEQVR42mP4//8/AwAI/AL+eMSysAAAAABJRU5ErkJggg==)![Click image for larger version. 

Name: IMG_2386.jpg 
Views: 83 
Size: 139.6 KB 
ID: 29873](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAYAAAAfFcSJAAAADUlEQVR42mP4//8vAwAI+AL89h3njgAAAABJRU5ErkJggg==)

**Log**

The Steampunk Droids

Introduction

So, where to begin? I guess I should start with the dream. Not the sleep kind, but the achievement kind of dream. For ages now I have been wanting to build my very own R2-D2. I joined the Astromech Builders Club in November 2014 and eventually I decided to build a steampunk droid – Sp-D2. This droid will eventually be fully motorized, have a display cabinet, and even its own primitive vending machine. I chose the name for Sp-D2 myself.

So I thought about it a bit more, and realized that I would need someone to help me build him. I ruled out dad because, after all, he is only my dad and not a master builder. So then I had a great moment of ideas. Since we were going to Melbourne this December, I thought I could build him with my uncle. He built his own house from scratch in the mountains of Tawonga, and I knew he could help me.

So we were all sorted. I had enough time to get my ass into gear and contact Ian (my uncle). I had enough time to ask around of [www.astromech.net](http://www.astromech.net) and finally enough time to work out my budget.

BIBLIOGRAPHY

So anyway, I spent two months looking up on the Net (mainly while I was at school, because Net Control 2 wasn’t completely installed yet and my school has the best internet there is. Wi-Fi is magic and should be worshipped.

I bookmarked EVERYTHING that I could find on the Net that could help me in my search. After two long, hard months of research I had my shortlist ready. Here we go:

How to Build R2-D2 low cost full size scratch build

Steampunk R2-D2 by the CHOCOLATIST

Day 1 – 4th January 2016

As you can see from the photos that I have uploaded, the Tuesday we spent working on the project was mainly finding the bin that we could start with. We also cut the wood into strips 2 inches/ 5 cm wide and 55 cm high. Since the bin was slightly wider at the bottom than at the top, when we used the screw gun to put the screw in we had to be careful not to split the wood. The average circumference was 163 cm – 65.2 inches.

We then spray-painted the top and the rims of the trash can with black spray paint. Funnily enough, a lot of books say that R2-D2 looks like a fancy trash can for a non-star wars fan!

The wood we used was probably from blinds – yeah, the blinds you might have in your house.

PART TWO THE STEAMPUNK DROIDS

DAY 2 – 5TH JANUARY 2016

The first photo for this day was the possible heads we found in Ian’s shed. Jesus, he has a big shed. Anyway, we ended up going with the bigger one and painting it gold to match the STEAMPUNK theme.

This photo is showing me and Ian (well you can only see Ian in the photo, but who gives a \*\*\*\*?) estimating a good spot to put our wood. We used our eyes to measure – short but SIMPLE!

About 14 wood planks later, we realized we would have to remove the wood again because of a very technical glitch – it was too big and the wood was starting to split. But we made even better progress as we literally trimmed them down to size.

This next photo shows Sp-D2 with a steel lining. This was supposed to keep the wood in place so it wouldn’t move around when we transported it back to Perth.

DAY 3 – 6TH JANUARY 2016

Today’s big accomplishment was getting the feet on. As you might be able to tell, we used light fittings from lamps that Ian’s had for years and stuck them on a 46° angle. We had a minor complication with the third leg – the second on the side (the damn screw went through the wood). Fortunately, we had a solution. We had an angle grinder that made short work of the screw.

Now there are angle grinders, and there are ANGLE GRINDERS. Ian’s was as big as they come, with a disk that could slice through metal like butter.

The shoulders were – I’m not sure what they were. I’ll check with Ian. Anyway, we didn’t have to drill a hole through it, so it was fairly easy to attack.

UPDATE: SHOULDER BITS WERE FROM A COMMERCIAL KITCHEN

DAY 4 – 7TH JANUARY 2016

Our next big thing today was fitting the base for Sp-D2 onto his bottom. As you might have guessed, a trash can turned upside down would still need a base.

We used a jig-saw to cut the circle out, and then we glued it onto the bottom of him. It would probably take the entire day to set, so we decided to leave the body alone for today.

DAY 5 – 9TH JANUARY 2016

Today was all about the tip. In the morning we cut up a bit of plywood to make a sort of top for the head so the security camera could balance on top. We also put the bottle caps (as badges) on the metal lining.

Afterwards we went to the tip. We had an amazing find with a working telescope and an awesome office chair that we could use to move Sp-D2 around.

DAY 6 – 10TH JANUARY 2016

All we really did today was mount the telescope on the body of Sp-D2. We unscrewed a huge stand that we could adjust the size, width and angle of, and we stuck that to Sp-D2.

# To Buy

## Portal & Online

### Security & Data

* Onedrive Premium -
  + Can password protect links
  + More storage (for backups)
* Jetpack Pro -
  + Automated backups of the portal (can send to OneDrive)

## Physical Technology

### Mobile Devices

* Samsung Tab S4
  + Custom case
  + Possible fingerprint sensor dongle?

### Computers

* The “Droidputer” - custom gaming PC
* Laptop -- currently unknown
* Macbook Pro (with touch bar) \*\* Windows 10 license

### Toys

* Littlebits
  + Droid Inventor kit add-ons?
  + Curiosity rover
* Sphero
  + R2-D2

## Hall of Fame (Physical items)

* Planetary Society
* Fisherspacepen.com
* TheSpaceCollective.com
* Music box (custom)
* USB Bracelet

# Littlebits

## Bio

Link: <http://littlebits.com>

## Droid Inventor Kit

### (Our Kit)

* Purchased ~10th October 2017 (for my birthday)
* <https://shop.littlebits.com/products/littlebits-space-rover-inventor-kit#perks>
* <https://shop.littlebits.com/products/droid-inventor-kit>

### (All kits)

## Curiosity Kit

* http://littlebits.com/projects/mars-rover

## STEAM/Learn

* https://learn.littlebits.cc/

# Sphero

## BB-8

**Purchased:**

* BB-8 (stand-alone sphero)

**Need to purchase:**

* Force Band

**Purposes:**

* Droid to keep A0-D2 company
* Backstory (see “Stories” section)
* Holographic messages
* Controlled with Force Band, and AoD Devices (see below)

<https://www.sphero.com/>

## R2-D2

\*Need to purchase\*

# Computers - WinDroidOS, MacDroidOS & LinDroidOS

## Macbook Pro (with touch bar)

The new Macbook Pro is one of the best-looking and overall best laptops available right now, and is definitely the best Macbook available. One of the great features of the new Macbook is that if you have a Windows 10 license, you can install Windows over the top and use it how you would on a regular PC.

The reason why the Macbook is high on our wishlist is the following reasons:

* While there are Android emulators available for Windows, some apps we will be using require an Apple device and it is preferable to use a computer in some cases
* The touch bar can be used to create special control panels, games and apps!

The uses for our Macbook include:

* Control droids (can use iOS apps as of the new MacOS updates) using iOS, MacOS & Windows apps (our other devices will also be used to control our droids, for example our AoiPoD, AoTab Series, AoiPhone Series, and AnDroidOS & WinDroidOS series)

## Unknown PC - laptop

As nice as the Macbook Pro is, sometimes we will need a Windows laptop. This section is for the specs and things we will require as well as links to possible devices.

### Specs Needed

* Biometrics
* Graphics card
* At least 256 GB
* At least 1 USB-3 & 1 USB-C port
* Windows 10 (obviously)
* Ability to run DroidOS

## Windows & Mac apps needed

* Bluestacks
* Firefox & Chrome
* Rainmeter
* Onedrive
* Steam

# Mobile devices - AnDroidOS

## AoTab (Version 1)

### Details:

* Samsung Galaxy Tab S2 8.0
* Purchased in October 2016

## AoTab (Version 2)

### Details:

* Samsung Galaxy Tab S4
* Not yet purchased

## AnDroidOS Apps

* VNC Viewer
* Terragenesis
* Steam
* Gallery Vault Pro
* Dragonvale World
* Droid Inventor App
* Astronest
* Hades’ Star
* AoD App
* R2 Touch
* Replika
* Zooniverse
* Star Walk 2
* Snap Swipe Drawer
* Microsoft Launcher
* Vega Conflict
* Arduino app
* Google docs
* Microsoft apps
* Force Collection (archived)
* Mars Tomorrow
* Life RPG
* Minecraft
* Onedrive
* Reddit
* Remote Desktop
* Sphero BB-8 & Sphero apps
* A full list of apps can be seen in the SOD group on the portal and can be downloaded using the google account listed there (this list is for iDroidOS as well)

# Mobile Devices - iDroidOS

## AoiPoD (1)

**Specs:**

* Apple iPod 5G - 2012
* Red
* 32 GB
* Tuesday ~28th October 2012
* Currently running iDroidOS (Jailbroken) 9.3.5
* View on allianceofdroids.org.au/aod/jedi-order/droidologists

## AoiPhone (1)

**Specs:**

* Apple iPhone 5s - 2013
* Silver
* 16 GB
* ~August/September 2017
* Currently running iDroidOS (un-Jailbroken) 11.0.2 (upgrade to iOS 12?) - https://www.redmondpie.com/jailbreak-ios-12-12.0.1-12.1-on-iphone-and-ipad-status-update/

# WinDroidOS

## Snapshots

### Limo - Lenovo Yoga 910 - September 18th 2018



# Props

## Ultrasabers Apprentice V4

Hello viewers, welcome to a super awesome video. Today I’m going to be unboxing and reviewing the Ultrasabers Apprentice V4 Lightsaber, which just arrived today. I’ve never seen one of these in person before, and this is my first saber, so I’m really excited.

We’re going to be looking at the hilt, the blade and hopefully using the blade plug - which I’ll explain about shortly. Sit back, relax and enjoy!