

R2D2 Modular control unit (MCU)

General motivation

- There are many good solutions for organizing all the control electronics for the whole selection of R2D2 bodys.
- However, none of these solutions fully met my requirements, so I designed my own interpretation of a modular control unit [the brain](#).
 - Special thanks to everyone who inspired me, particularly John van Ohrs with his [R2D2 modular electronics panel by jfmvoers - Thingiverse](#) and Tim Eebel with his [MarkIII Hinged Electronics Panel](#).

Requirements

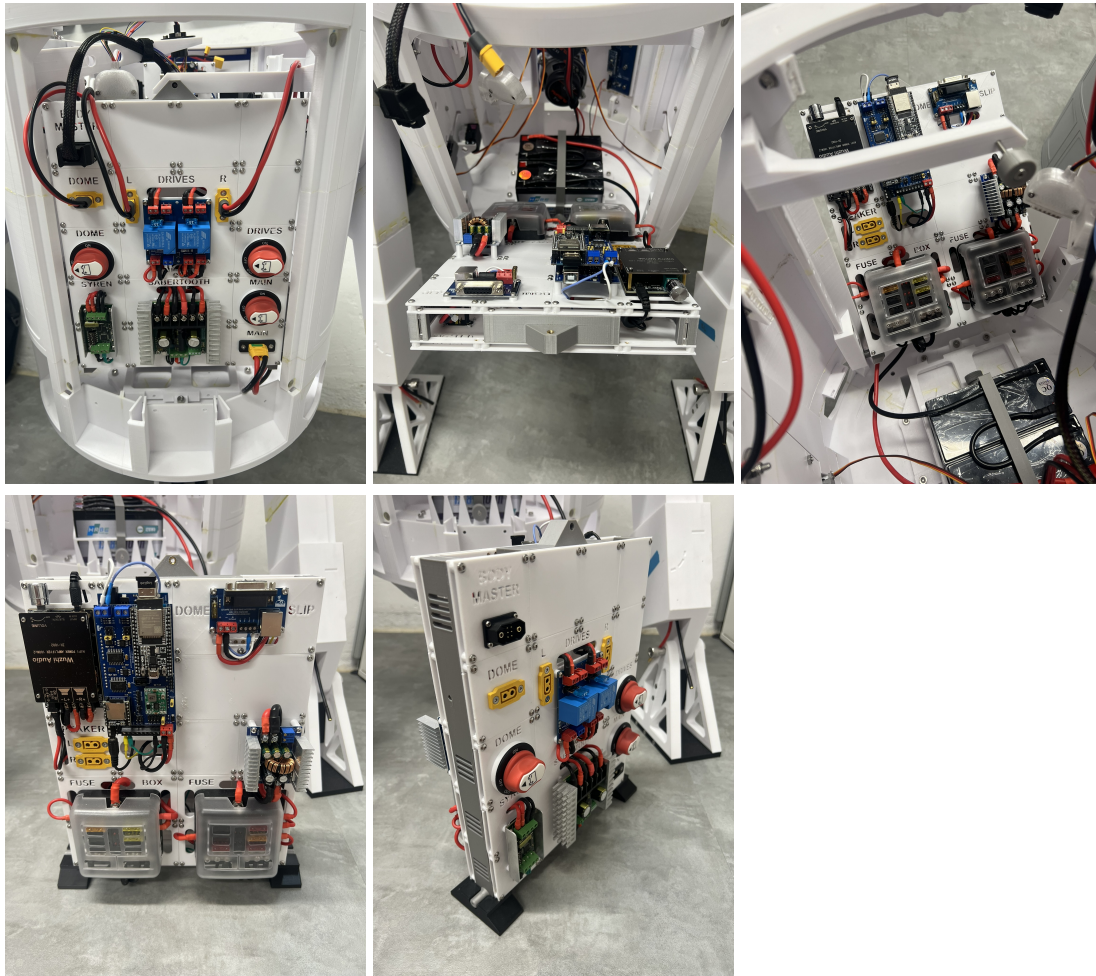
- The module must be completely removable as a single unit to allow work on it at the workbench.
 - Everything must be possible without any special tools, i.e., plug-and-play instead of screws (almost achieved)!
- To allow access when installed, the entire unit must be hinged (no tools required for this step).
- The design must be modular, allowing it to be adapted to specific requirements.
- The design must be based on a grid (60x60mm) and offers panels ranging from [1x1](#) to [1xX](#).

Used Mods & Kudos

[!NOTE]

- The following list contains an overview of the mods that I currently use in my Droid. It is not mandatory to use them as well, but I can confirm that they are compatible with each other.
- [Battery Tray for Baddeley MKIII Astromech](#) by [Jason Charlton | Printables.com](#) (he also has many other great mods!)
- Dome Motor Mount by [Gonz Pousada J Luis](#).
- Both Luis and Jason have other fantastic mods, and you should also check out [Jason's YouTube Channel](#).
- A special thanks to Ben from [Printed Droid](#), who provided me with the electronic components, and to Norbert A. Richartz, who is developing the AstroCan System and [BetterDuinoFirmwareV4](#). He answered nearly all my questions and integrated some cool features.

Images



Community panels

[!NOTE]

- The following list contains an overview of panels which were created by other users to extend the option what electronics can be used. Thank you so much!
- Stephen Mathis has published [his created panels](#) on the Facebook group of Mr. Baddeley. He also posted a [video](#).
- [dadmin](#) created a [set of panels](#) to hold electronics like a voltmeter, new power terminals, Sparkfun MP3 Trigger, new AMP, XBOX receiver and Mini Maestro 24-Channel USB controller.