

Robonauts' Everybot

2018 -- FIRST Power Up

The Robonauts' Everybot, with a final budget of \$1000, is an affordable, robust, and simplistic robot that can be built with nothing but basic tools and items found in either the kit of parts, purchased from your local hardware store, or FRC retailer such as Andymark and VEXPro.

In our analysis of **FIRST Power Up**, we've found that a short list of robot capabilities will define a robot capable of playing in a regional finals match or have a place on an alliance at a championship. We stuck to the most valuable and basic scoring tasks. This list can be found in the "technical documentation" linked below the reveal video.

[Everybot Reveal Video](#)

The Robonauts are proud to present the [technical documentation](#) on Everybot that includes a guide on how we built Everybot along with some robot photos for teams to reference.

[Here is the link to the CAD of Everybot.](#) We strived to make it as complete as possible.

[Here is the link to the Bill of Materials for Everybot.](#)

Everybot came out to around \$750 plus the items that are in the 2018 kit of parts.

Everybot runs off the Robonauts' PAC-Bot [code](#). PAC-Bot code is modular code designed to support our PAC-Bot prototyping chassis. The PAC-Bot code is posted on our website under Robots → [2018](#). Included with the code is the Robonauts' PAC-Bot Guide with documentation on how to get the software on your robot running as well as adding additional capabilities to your robot's software.