



robo E4 Pro

Getting Started Guide



Set Up:

Unbox your printer and plug it in. Toggle the power button on the back into an “on” position and then press the power button on the front to power on your printer. **How to videos are available at the QR code above.**

1. Calibration

Go into Tools/Calibration and then **Z-Axis Calibration**. Select Normal Mode. When the printer is ready, use a sticky note to test the distance between the build plate and the extruder. Use the arrows on the screen to increase or decrease the distance between the two. *You want a small bit of friction but the ability to still move the paper.*

Then go into Tools/Calibration/**Sensor Calibration** and follow the on-screen prompts. In this step you will turn the knobs under the build plate to make sure the build plate is all level relative to itself.

2. Filament

Open a spool of filament and cut the end of the filament so it has a nice clean end. Place it on the filament spool holder inside the side of the printer.

The filament should feed from the bottom of the spool up and into the tube. Slide it through the tube and into the opening at the top of the extruder. Click on the filament icon and then “Load” to heat and load filament.

3. Internet

E4 Pro printers cannot connect to a network with a sign-in or log-in page.

Ethernet: Plug in an ethernet cable to the port on the side of the E4 Pro and click Tools/Network. Select the Ethernet symbol. Toggle it on. Once online, you will see the IP address and an ethernet symbol in the top toolbar.

Wi-Fi: Click Tools/Network and then select the Wi-Fi symbol. Toggle it on. Select your network and type in the password. Once online, you’ll see an internet symbol in the top toolbar.

Time to start printing! You have three options to choose from.

1. MyStemKits (Plug & play with ready-to-go 3D models and lesson plans for education.)

What: MyStemKits is a web-based curriculum platform with hundreds of 3D-printable models and standards-driven lesson plans. Check your box for a postcard with *Starter Plan coupon code*.

How to use: MyStemKits has a “Resources” page with more how-to videos.

1. Navigate to MyStemKits by typing **www.MyStemKits.com** into your browser.
2. Click “Register Activation Code” and use the code from your order or the postcard.
3. Go to “Printer Management” and then “Register Printer.” **Click “Register” next to the Robo logo.**
4. **On your E4 Pro, make sure your printer is online.** Select Tools/Cloud. Select the “MSK” cloud and toggle it on to get your code. Insert your code on your computer and click “Add.”
5. “Browse Kits” for a kit you would like to print and click “View Kit”. Unlock the kit by clicking “Locked” in the upper right corner. Scroll down and click *Print* below the part or set you would like to print. Check the “Enable One Click Print” box and select the printer you would like to use. Your printer will start printing!



The two options below allow you to print models you've created or found online.

Tip: You can create your own 3D-printable designs at www.Tinkercad.com. You can find thousands of 3D-printable designs at www.Thingiverse.com. Your printer cannot read a .stl. You must use one of these options to print!

2. RoboCloud (Printing wirelessly via the cloud.)

What: RoboCloud allows you to wirelessly manage one or more printers and send prints to the printer as long as internet access is available. You can also queue prints and send prints directly from Tinkercad to RoboCloud. (Queued prints do not auto-start, but are ready to be started when one finishes.) *Each printer can only be associated with one account at a time, so a single admin has to manage the printers or the log-in information should be shared amongst teachers who will use it.*

How to use:

1. Register an account at cloud.rob3d.com. Click "Get Act. Code" and check your email to retrieve it.
2. To connect your printer, to go "My Printers" and click "Add Printer." Name your printer.
3. On your E4, make sure your printer is online.
4. Click on Tools and then Cloud. Select "RoboCloud" and toggle it on to get your code.
5. Insert your code on your computer and click "Ok."
6. Upload a model by clicking on "My Models" and click the green "Upload Model" button at the top. Models must be in .stl file format. When uploaded, the models will disappear from the list.
7. Select the model you would like to print from the "My Models" list and then click "Print."
8. If you have multiple printers, select the printer you want to print to from the dropdown.
9. Select the print settings you desire or keep the defaults and press "Print" to queue your item.
10. Click "Start" to print.

3. RoboPrint (Printing via USB or wirelessly. Mac and Windows compatible only.)

What: RoboPrint is commonly used when access to the internet is not available/not possible or when a large number of users are sharing the same printer. If printing wirelessly, you must be on the same network as your printers.

How to use: RoboPrint is a downloadable software *only* available for Mac and Windows devices.

1. Download the software at <https://rob3d.com/pages/desktop-software>. Select the "RoboPrint 5" software for Robo E3, E3 Pro, E4, or E4 Pro.
2. After downloading, open the program and select *File/Load File*. Choose an .stl file to load.
3. Select the correct printer type in the bottom left corner where it says the type of printer.
4. If your model needs supports, click "Supports" and then "Auto Supports." Then click "Back."
5. Click "Start Slicing" to adjust print settings or proceed with the default settings.
6. Click "Slice". This will create a file type your printer can read.

USB



7. Save the .gx code to a USB drive using the "Save to Local" button.
8. To print, plug the USB into your printer and select the print menu. It looks like an extruder.
9. Select the USB drive icon and select the file you wish to print.
10. Press the start button to print the selected model.

Wirelessly



11. Click the "Send to Printer" button. Connect your printer wirelessly. This can only be done if the printer and computer are on the same network. Then "Send GCode" to start the print.

