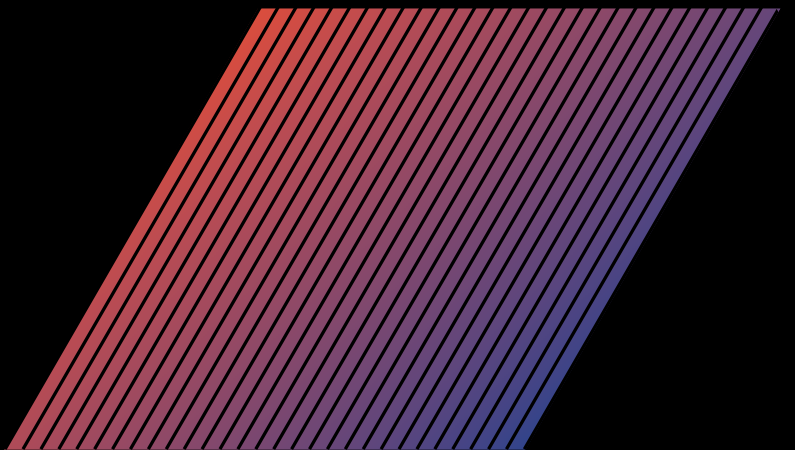


# prinsta



**Electronics  
Manufacturing  
Platform  
Kit**

# Make the future faster.



## Contents

01.

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02. & 03.

**P1: Electronics  
Manufacturing Platform**

04.

**Dashboard**

05.

**Etching & Developing  
Tanks**



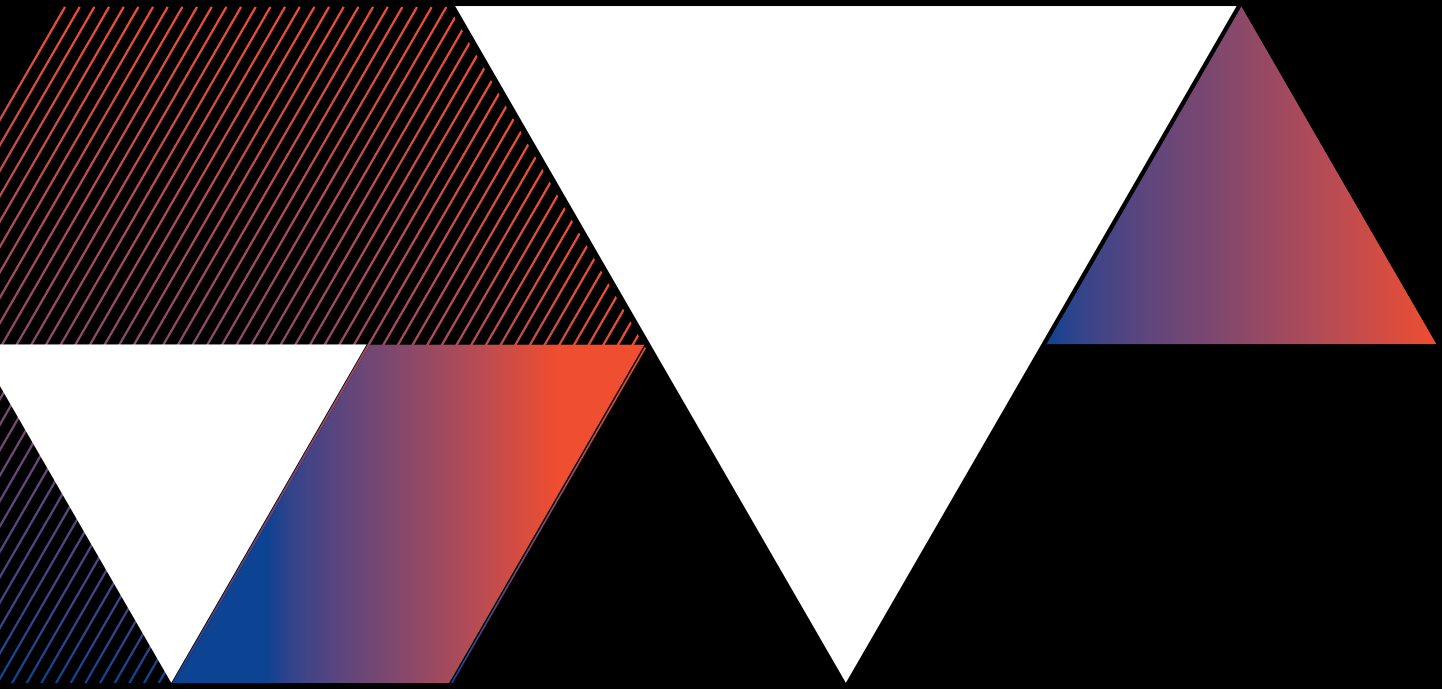
**TELEPHONE**

**Phone:**  
917.719.0102



**WEB**

prinsta.io  
yboumenir@  
prinsta.io



## Mission & Vision

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At Prinsta we're changing the way companies prototype electronics. We often describe our goal as creating a paradigm shift in how electronics are made, similar to how software development today is very different from software development in the punch card era. At Prinsta what we've developed is equivalent to the personal computer, and we're excited to share it with you.

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Prototyping electronics today involves sending out design files to a contract manufacturer and waiting to receive a prototype. There are solutions that exist, in the form of a "desktop circuit board printer" but they often fall short on the reason why we prototype. We prototype in order to test our innovative ideas, and in these challenging tasks, we design with the goal of reducing the number of variables.

At Prinsta, we've brought the same manufacturing process closer to your desk with the form factor that can also sit on your desk. By using a similar process at a fabrication plant, we can rest assured that our prototypes will work to a similar level as those produced in mass quantities.

# P1 Electronics Manufacturing Platform

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Create multi-layered  
electronics with ease.

Featuring a modular tool system:

Direct Laser Imaging

Silkscreen & Solder-mask

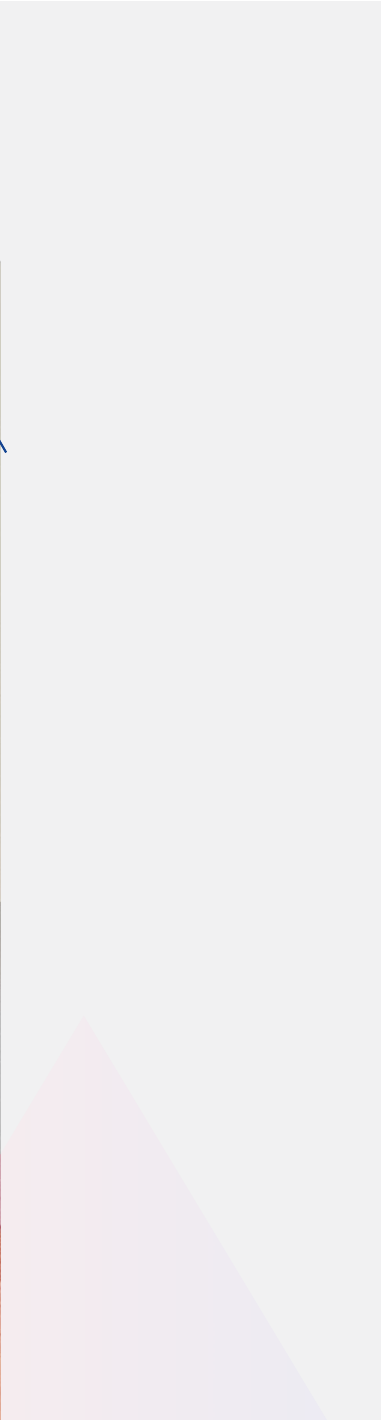
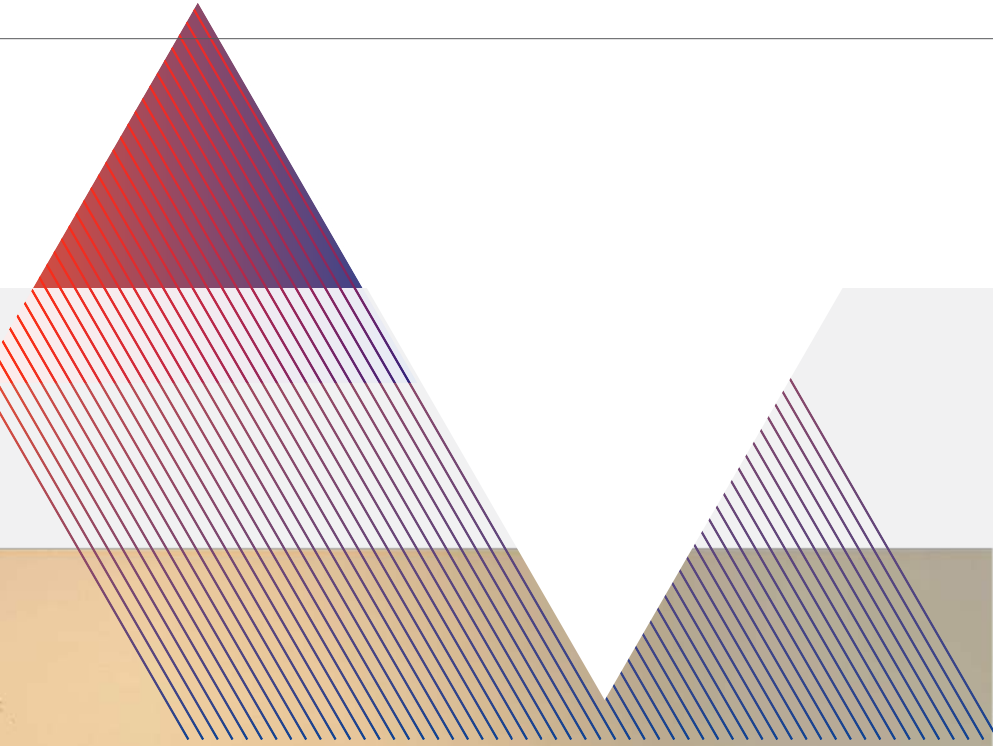
Drilling & Milling

Pick & Place\*

Solder Dispensing\*



\* coming soon.



## Modular Approach

---



Image  
Photoresists,  
Silkscreens &  
Soldermasks.

Direct Laser  
Imaging Module

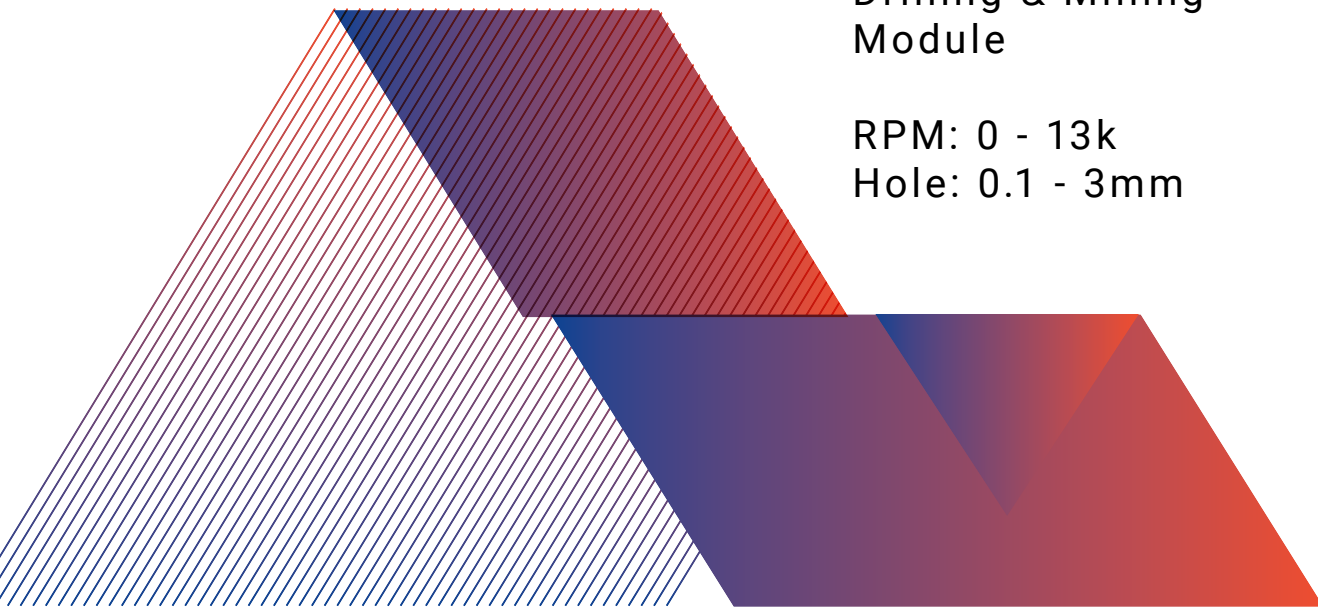
$\lambda$ : 355- 450 nm  
P: 1W

Using a  
standard  
ER-11 Collet,  
you can drill  
& mill with  
with ease.



### Drilling & Milling Module

RPM: 0 - 13k  
Hole: 0.1 - 3mm

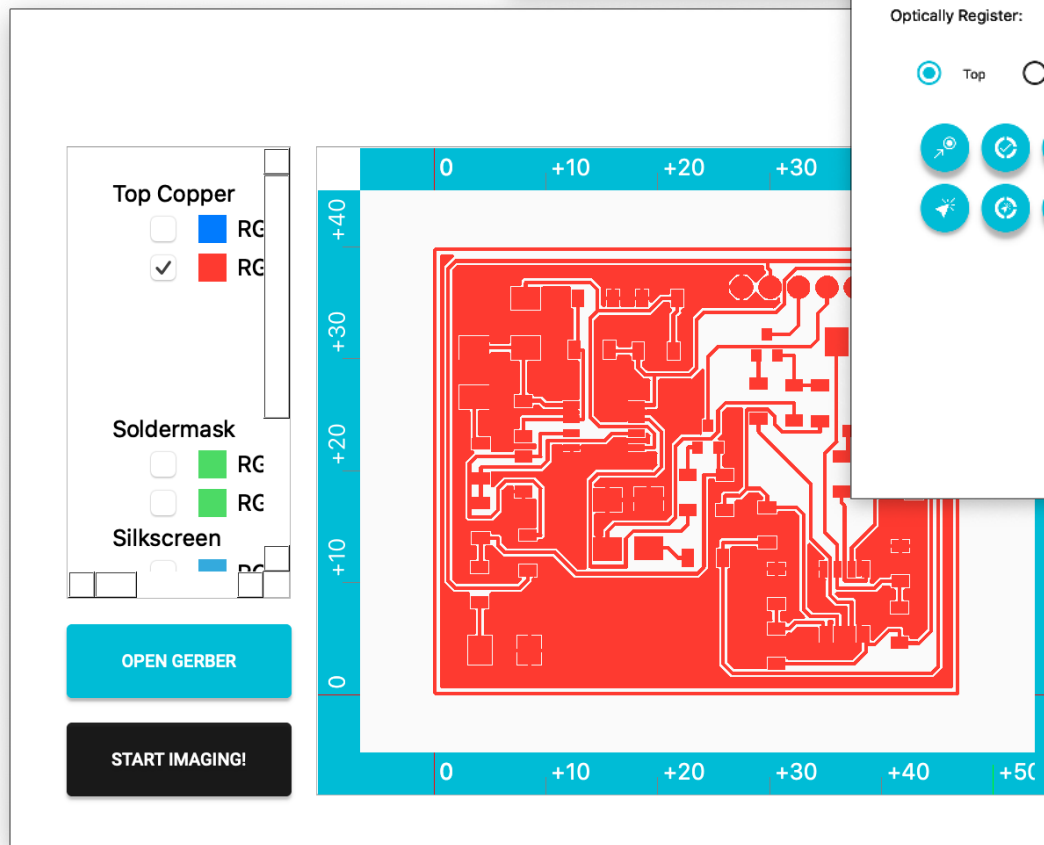
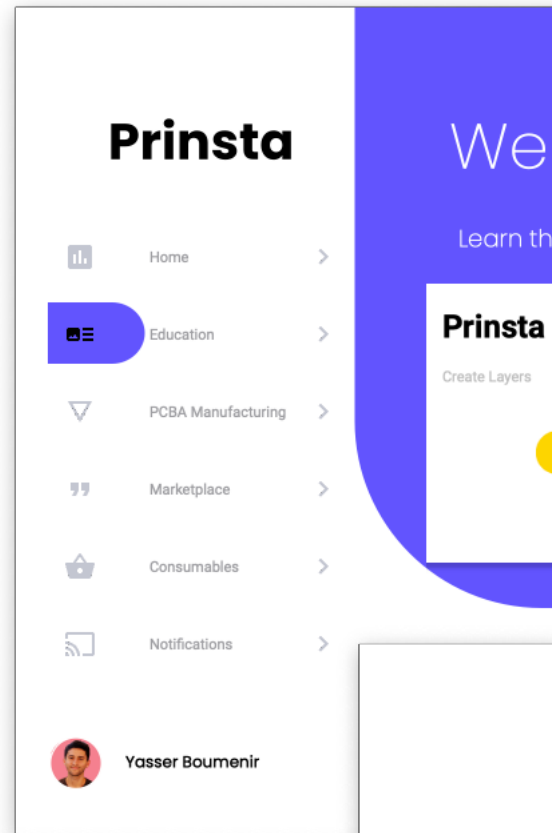


Dashboard

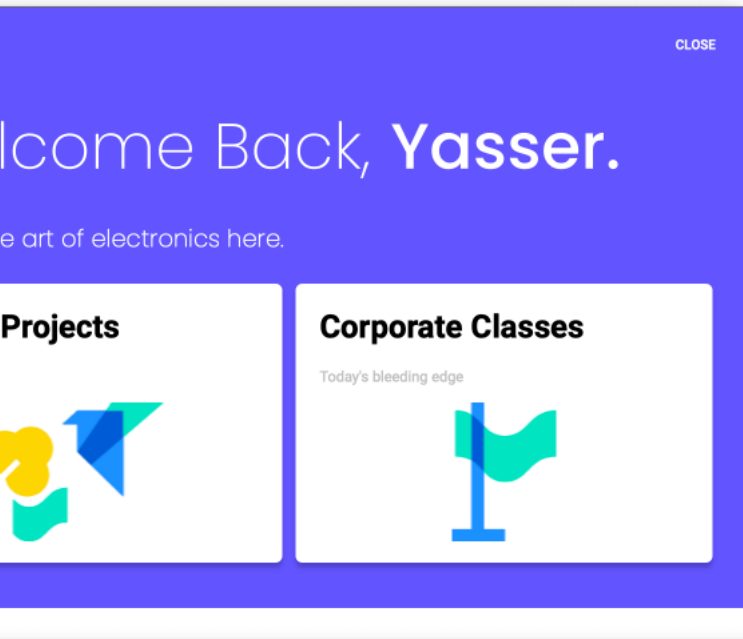
Word class software.

Powerful &  
easy to use.

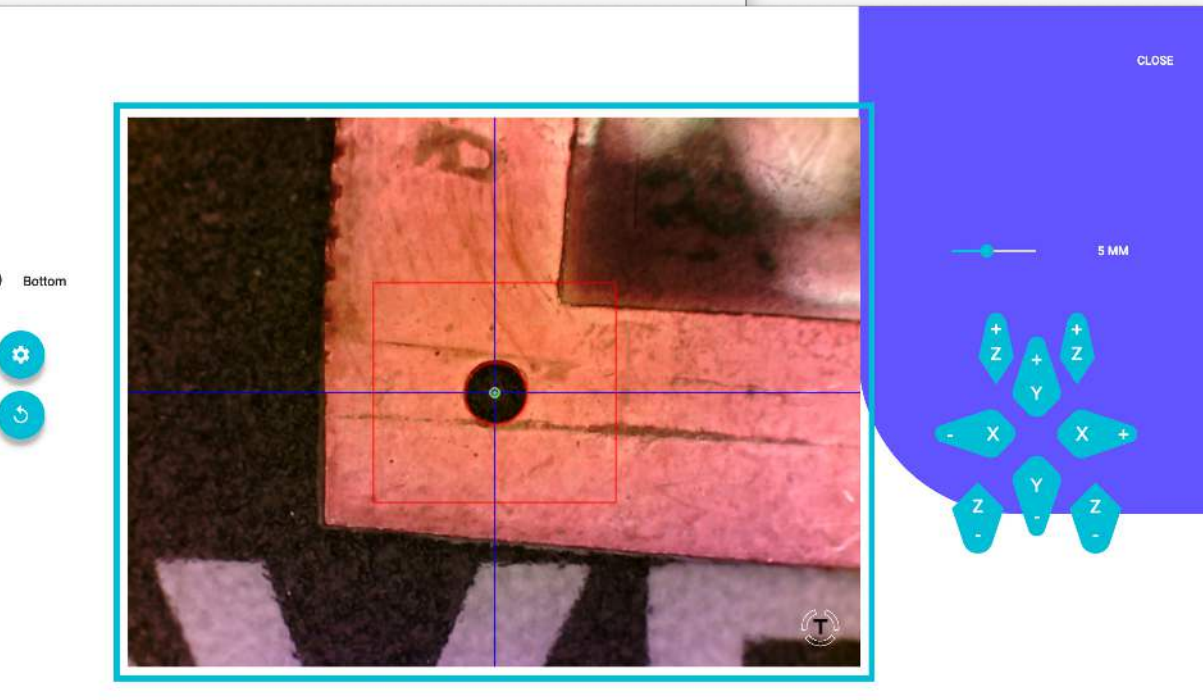
Supports Gerber  
RS-274X &  
Excellon







All-in-one  
Electronics  
Experience.



Simple 3 Point Optical  
Registration.

## Etching & Rinsing & Developing Tanks

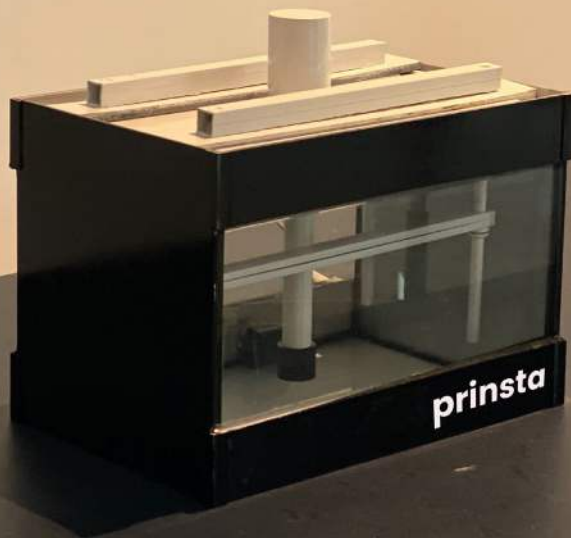
---



By using Direct Laser Imaging, and chemically processing our Prinsta boards, we can achieve a theoretically spot size, and trace size of 76 microns.

---

With built in  
heaters, Develop  
& Etch in 90  
seconds or less.



# Specifications

## P1

### Power Supply

**110 VAC - 240 VAC**

### Dimensions

**18" x 15" x 12"**

### Max PCB Size

**4" x 6"**

### Interface

**2 x USB 2.0**

## Direct Laser Imaging Module

### Min Spot Size

**75 um**

### Max Power

**1 Watt**

### Emission Spectrum

**355 - 450 nm**

## Drilling & Milling Module

### RPM

**0 - 13k**

### Collet Size

**ER - 11**

### Motor Tech

**BLDC**



## Developer & Rinsing Tank

Power Supply

**110 VAC - 240 VAC**

Max PCB Size

**4" x 6"**

Developer Solution

**Alkaline -  $\text{Na}_2\text{CO}_3$**

## Etching Tank

Power Supply

**110 VAC - 240 VAC**

Max PCB Size

**4" x 6"**

Etching Solution

**persulfate or Ferric**

## Dashboard

OS

**OSX / Win/ Unix**

Gerber Format

**RS-274X/ Excellon**





Make the future  
faster.





# prinsta is located in NEWLAB



Lair East Labs  
for entrepreneurs, by entrepreneurs



19 Morris Avenue, Brooklyn, NY  
Building 128

