Users turn to BotFactory when

**OUR CLIENTS**

**SUPPLY CHAIN**

- Impatient about long development cycles
- Uneasy about copycats and tampering
- Frustrated with CM back-and-forth

**INTERNALLY**

- Delayed by red tape
- Nervous to stay in budget
- Looking for new PCB materials and form factors
We made the PCB Manufacturing Process

Quick
Reduce your turnaround time from weeks to only a few hours

Easy
When you design, many iterations are required. By reducing lead time and cost, you can focus on what matters

Affordable
$0.8-1.75/sq in/layer
$0.4-0.87/sq in (conductive)
$0.4 to 0.87/sq in (insulating)
Same price for rigid or flexible materials

Safe
Keep your IP in-house

Flexible
Adapt to new form factors & use rigid, flexible, or exotic materials (e.g., glass, paper, coin)
Rapid Additive Manufacturing of Printed Circuit Boards

**Step 1: Print**
Conductive and insulating inks create a multi-layered circuit

**Step 2: Paste**
Conductive glue or solder paste is extruded

**Step 3: Assemble**
Components are automatically placed on the paste to finish the board

[CLICK HERE to watch 45s video demo]
Rapid Additive Manufacturing of Printed Circuit Boards
Hack a board
During our experiment, we took a picture of a target PCB, extracted the traces, and copied the PCB, all in under 2 hours
Rapid Prototyping
FR-4 boards, such as this Larson scanner, are created, tested, and iterated in record times.

Smart Packaging
New materials open a whole new range of applications, such as this Arduino circuit on Kapton tape.

Flexible Electronics
Flex circuits can bend to adopt the shape of the casing. Price is a big restriction against mass adoption. This light fixture was made for a few dollars.

Multilayered Flex
Single layer PCBs are pressed together to create multilayer boards. Layer by layer inkjet printing removes the need for a press and plating process.
Rapid Prototyping

FR-4 boards, such as this Larson scanner, are created, tested, and iterated in record times.

Some of Our Projects

**e-Textile**

NCSU researchers print highly conductive traces on fabrics that remained highly conductive after thousands of bending cycles and extreme stretching.
UV Sanitizer
Clean items with germ-killing UVc light and ration your cleaning supplies.

Combine 3D Printing Tech
Combine 3D printing PLA and electronics to create fully functioning devices.