

Past Lives Case Study

How Past Lives applied 3D printing and electrical engineering to help solve a new **Bendix Corporation** power supply from concept to product development.

ABOUT PAST LIVES

Past Lives represents a revolutionary model of work built by an empowered community. In our 26,000 square foot facility based in Portland, we provide individuals and businesses the means to flourish through creative collaboration and shared resources.

Our business model provides employment for the formerly incarcerated by partnering with area businesses in need of contract prototyping, fabrication, and manufacturing services.

We extend the business or manufacturer's capacity by offering a flexible, skilled workforce to build orders just-in-time. From one-of-a-kind to one thousand parts, our process and quality controls are made to meet your standards.

Our competencies range from early stage idea development through custom prototyping in a variety of materials and methods including wood, metalwork, welding, casting, 3D-printing, electronics, textiles, and more.

Past Lives helps us solve critical product design problems applying insights, rapid prototyping, and on-demand manufacturing support.

- David Ciampi, Engineer, Bendix Corporation



Bendix Corporation Commercial Power Supply



Approach

Client: **Bendix Corporation**

Extending Capacity: We are a collaborative partner to the Bendix engineering team extending their capacity to bring new product ideas to market.

Collaborative Engineering: We bring CAD and 3D printing skills to engineer and problem-solve ideas.

Hardware & Software Electronics: Our team unites hardware design and software development including housing design, circuit board design, and ventilation testing for the new Bendix commercial power supply.

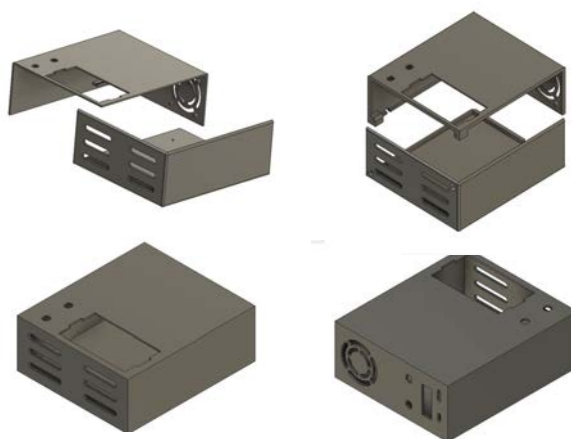
RESULTS

Past Lives works collaboratively with the Bendix engineering team to develop new product ideas, in this case the design of the corporation's new power supply.

We operate as an on-demand, limited run manufacturer for Bendix by solving unique product design and development challenges. Our competency as a turnkey partner includes concept development based upon performance criteria, physical prototyping, circuit board design, hardware design, and testing.

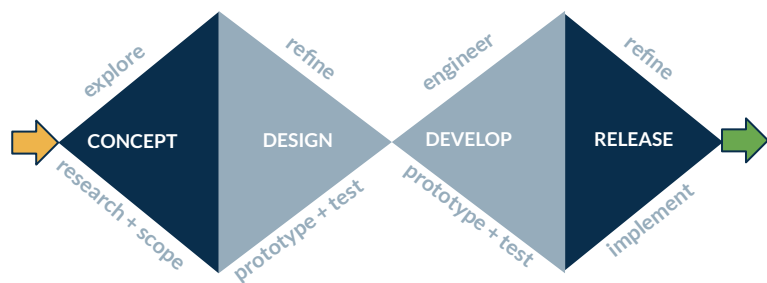
CONCLUSION

The rapid and successful development of the new product allowed a very busy engineering team at Bendix to stay focused on core activities.



CAD drawings for housing

PROCESS



Past Lives process is managed to ensure the final design meets the use and performance criteria.



3D printed study



Final product design

