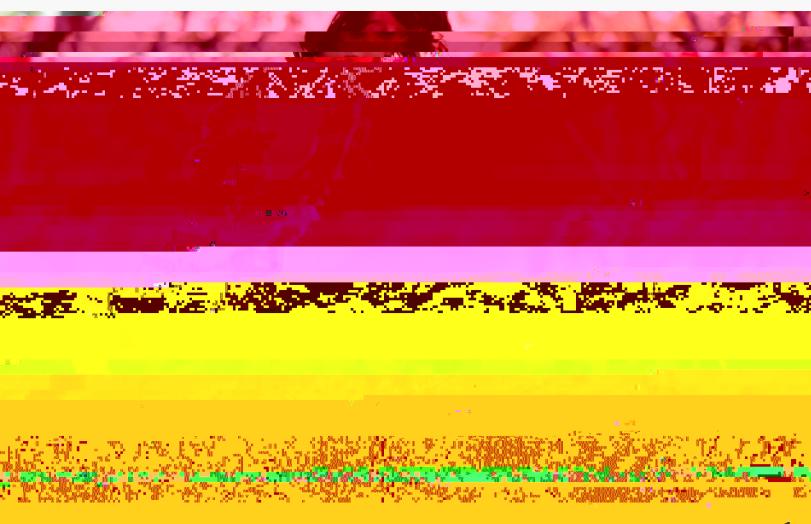


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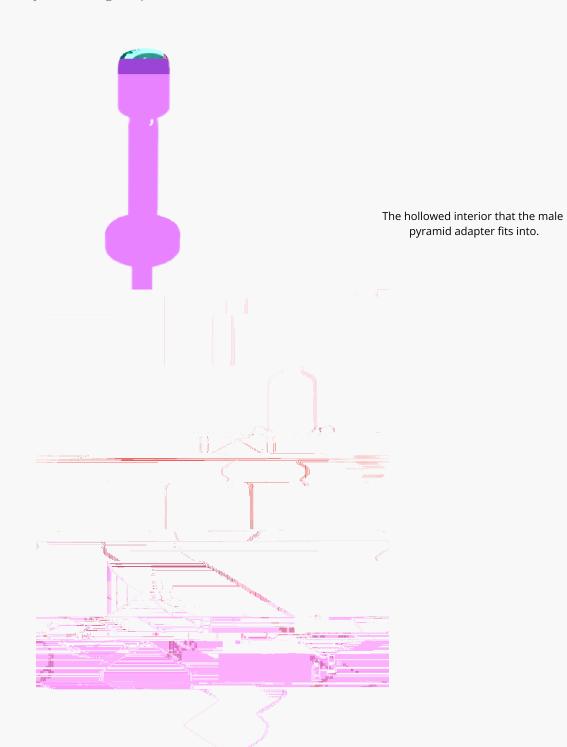


The Problem

Having an improperly fit lower limb prosthetic can cause long-term damage to the human body. The added physical stress can cause hip, back, and knee pain. If one limb is longer than the other, the posture and gait become unbalanced. If the foot is disproportionate to the length of the limb, the feet will compensate by turning outward. In either case, the imbalance creates a wearing on the hips and causes osteoarthritis.

To prevent this issue, the patient re uires a new assembly 1 to 2 times annually between ages 1 to age 14, with each component of the assembly needing 3 appointments for proper refitting. This causes the parent to take the child out of school or miss out on uality time as they miss work.

The OneLimb Assembly is composed of OneFoot and OneLeg. Our assembly ensures proper connection with any prosthetic component via the pyramid joints. This provides the end user with complete flexibility when using our products.



Next Steps

Limbfinity plans to continue to iterate this design by making updates to material and improving overall design aesthetic. Limbfinity will also provide customization capabilities to the end user to improve customer engagement.

To conduct more testing on patients, the assembly will need to have FDA clearance and a partnership with a local, oulder, CO, pediatric prosthetist or orthotic specialist.

How We Help



Annual savings of 0 thousand dollars in healthcare



Hours saved in doctor's office

Prevention of future health issues

Simpler coverage

Replacing multiple prosthetics into one assembly for two years

Conclusion

Through the Engineering through Social Innovation course offered by the University of Colorado oulder, and sponsored by the Engineering for Social Innovation program, Limbfinity was able to design, manufacture, test, and present a functional prototype of the product.

ecause when it comes to your children, there is *one* solution.