

A SELECTION OF SOME OF THE SOLUTIONS OF THE PELE DEPARTMENT WITHIN OUR INNOVATION CENTER provided both for children with special needs evacuated from the North and South of Israel and for young soldiers and adults injured in the attacks on October 7th and in the aftermath

Tactile Sensory Board for Evacuated Child

A child with a rare condition, leading to multiple special needs, faced significant stress following her evacuation from the South of Israel. The trauma made it increasingly difficult for her mother to comfort her. Seeking assistance from PELE, the mother requested a replica of a tactile sensory board left behind in the kindergarten they fled. This board had previously helped the child feel secure and calm. PELE responded promptly, creating a portable sensory board that the child can use in any housing situation (and to keep for when she eventually returns home!).



Quadricycle Transforms Life for Displaced Toddler



Our team is shown here fitting out a specially adapted quadricycle to a toddler with severe muscle weakness who is unable to walk. This crucial mobility aid is tailored to her unique body and head support needs, enabling her to engage with her environment in previously impossible ways. The quadricycle enhances her quality of life and provides an enjoyable source of mobility during these challenging times. Displaced from their home in the South of Israel, due to the Iron Swords conflict, her family is profoundly grateful for this transformative gift.

Adapting Solutions to Foster Toddler Independence

Eitan, nearly 3 years old, has a syndrome that has stunted his growth to half the typical size of a child his age. In the hotel room to where his family were evacuated, he struggled to reach the bed, chair, sink, or table. PELE adapted an off-the-shelf solution to help him reach these places and regain his independence and explore his surroundings like any other “adventurous” +toddler.



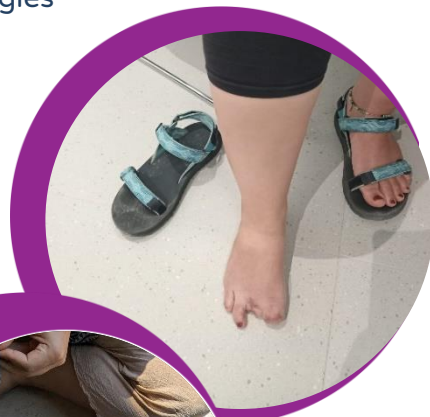


PlayStation: More Than a Game for Nova Party Attendee

Boaz* attended the Nova Party on the fateful early morning of October 7th. when Hamas terrorists carried out their heinous attack on the participants, as a result of which he has a paralyzed arm with very little function of what was that dominant hand. An activity that he very much enjoyed was to play PlayStation: now with the switches fitted in a way inside a Sony Access controller that he can press with the limited movement he does have in his fingers on that hand he can have maximum two handed control of the game, an activity that brings him both pleasure and a sense of normalcy. His story, marked by emotional challenges and accompanying depression, underscores the importance of providing adaptive technologies that enhance mental well-being.

Custom Shoe for Mortar Shell Injury

Sarah*, a Netivot resident, was injured by a mortar shell, and required a solution to prevent the excruciating nerve pain she suffered when standing on her injured right foot. The custom solution developed for Sarah after experimenting with various materials and levels, was to carve out a section of the sole of the sandal and fill it with neoprene. Now, a very grateful Sarah, after standing and/or walking even for long periods of time is able to do so free of pain and has regained stability and mobility and has had her quality of life significantly heightened.



Custom Carrier Solution for Evacuee Toddler with Muscle Weakness

Yaira*, almost 2 years old, suffered from a serious case of meningitis at 5 months old, resulting in very weak muscles. Before October 7th, she lived with her family near the Gaza Border. They were evacuated first to Massada and then to Sde-Boker. Yaira* is at home most days, and her mother needs to carry her constantly. PELE has developed a modified carrier that is both comfortable for the mother and safe for the child.



Combining Forces to Enable Limb-Loss Survivors to Lay *Tefillin*

Tal*, Binyamin*, and Hadar* wish to lay arm *tefillin* independently. A PELE and Milbat (Sheba Tel-Hashomer) hackathon was organized to assist soldiers and others who have lost limbs in maintaining their religious practices despite their challenges. Volunteer makers, engineering and design staff from PELE and Milbat, along with therapists from ALYN Hospital and Sheba Tel-Hashomer Medical Center, are collaborating to develop these solutions from prototype to finished product.



Support for Soldiers and Young Victims of the October 7th Terrorist Attack

The PELE team is collaborating with Sheba Tel Hashomer Medical Center and Hadassah Medical Center for the treatment of young adults who have sustained severe hand and arm injuries from the October 7th terrorist attack. These injuries are such that full recovery is unlikely. PELE is working directly with the patients and their occupational therapists to develop affordable devices that will help compensate for the lost functionality and support their adaptation to new challenges.



Easy pull-off underwear for soldiers with maimed hands



An adapted portable bidet, one of several personal hygiene solutions



Game for occupational therapy for young adults with maimed fingers



Modified Winter Boots for Injured Soldier

A soldier with a severe lower leg injury from an RPG attack recently requested support. After successful skin graft surgery at Sheba, he can now bear weight on his foot, although the grafted area must remain uncovered for proper healing. The PELE team is preparing to develop specially modified warm winter boots that will support his foot while allowing the transplanted area to heal without restrictions.

*Not real names