

NO.9

Let the sun rise, light up the morning



Newsletter 2024

A decade of education, technology, and innovation!

Since our founding, Idan Technology has fostered collaboration between the business and public sectors, including a partnership between the Regional Municipal Council and Gevasol. It serves as a hub connecting industry, technology, and education.

So what did we have?

01

Furniture Design with Cardboard

02

Programming Challenge: Robots in Industry

03

Camp I.O.T

04

Supporting Schools in Creating Makerspaces

05

Lego Robotics Library

06

Capstone Projects

07

Purim Costume Workshop

08

Family Electromagnet Challenge

09

Afterschool Courses

10

Summer Mini-Courses

11

Summer Camps

12

GoDare

13

Hanukkah Workshops

14

Robot Battles

15

Girls' Lego Robotics Course

16

Hosting Senior Groups

17

Space Exploration Course

18

Scholarships for Employees' Children

19

Magic Time for Displaced Families

20

EDUT 710

21

From Idea to Product

22

Farewells and New Beginnings

23

Advanced Physics Research Projects

04

Supporting Schools in Creating Makerspaces

For the first time, Idan Technology staff worked with schools to establish makerspaces. Teachers defined goals based on their schools' needs, while Idan staff provided expertise. This collaboration extended learning beyond the classroom.



05

Lego Robotics Library

In its second year, the Lego Robotics Library supplies schools with kits and guidance for teaching programming and robotics. These lessons have become a regular part of students' schedules. In two regional schools, Idan staff also teach programming and robotics.



06

Capstone Projects

High school students use Idan workshops and tools to develop their design, mechanical engineering, and mechatronics capstone projects. Guided by Idan staff, they create prototypes that combine practical skills with innovative thinking.

07

Purim Costume Workshop

Idan Technology's Purim costume workshop is a cherished tradition. It brings together children, teens, and adults to design custom costumes for children with physical disabilities.



01

Furniture Design with Cardboard

Local public elementary schools integrated furniture design into their science curriculum. Fourth graders explored material properties and practiced the product design life cycle using a cost-effective, eco-friendly cardboard material. They studied work methods, tailored designs to classroom needs, and used laser cutting to create durable furniture.



02

Programming Challenge: Robots in Industry

The second annual programming challenge introduced students to computational thinking and physical programming with real-world input-output systems. Teams programmed Micro: Bit robots to simulate tasks like transporting goods, sorting items, and avoiding obstacles. Students learned to bridge the gap between programming and real-world execution through creative problem-solving.



CAMP I.O.T

INTERNET OF THINGS

— בעידן טכנולוגי —

קבוצה מכיתות ח'–ט' מבתי הספר בעמק המעיינות

09:00-16:00 בשעות // 19-23.05.2024

(הסעות מבית ספר ולבית ספר)

הפרויקטים השנה יתנו מענה לשיפור איכות החיים של פצועי מלחמה

עידן טכנולוגי מזמין אתכם להיות חלק מהמהפכה החדשה והחשובה ביותר בעולם הטכנולוגי מאז המצאת האינטרנט. במהלך ה-Camp נלמד באמצעות צוות מקצועי את המיומנויות הרלוונטיות בפיצוח אתגרים מבוססי I.O.T ומחוברים ליכולות טכנולוגיות יישומיות ונייצר פרויקטים המחברים לחיים האמיתיים.

מה זה I.O.T (Internet Of Things)? מה מיוחד בטכנולוגיה זו? בשנים האחרונות נוצרו כלים המגיישים גם לאנשים ללא ידע/נסיון בתכנות את האפשרות לפתח במרחב. במהלך ה-CAMP נגע ברעיונות, בחומרה, בתוכנה ובמרחב הציבורי באמצעות כלים וחומרים המאפשרים ליצור פרויקטים מבוססי I.O.T ברמה גבוה.

מעוניינת להיות חלק?

פנו לרכזת השכבה

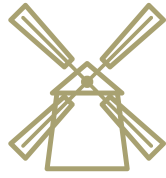
03

Camp I.O.T

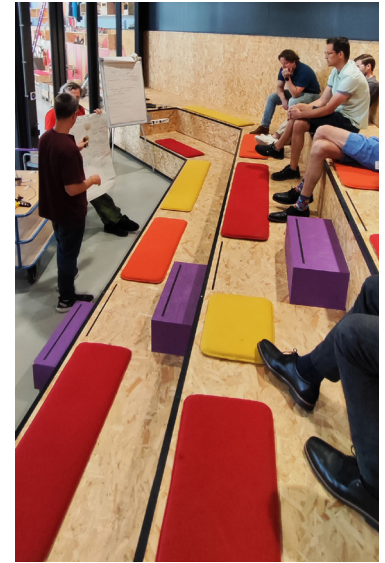
This year marked the third Camp IoT at Idan Technology. Eighth and ninth graders spent five days developing IoT-enabled solutions for Eran Retzabi, a local engineer recovering from injury. After learning about his rehabilitation needs, students designed innovative products and presented them to Eran, his family, and the school staff.

12

GoDare



Idan Technology collaborates with the Dutch GoDare center, a partnership between Gevasol and Lely. Israeli and Dutch teams exchanged ideas and developed workshops tailored to the Dutch audience, strengthening both personal and professional ties.



13

Hanukkah Workshops

During Hanukkah, Idan Technology hosted workshops for grades 1-6. Students learned skills like programming, soldering, vacuum forming, laser cutting, and basic electronics, all with holiday themes.

חנוכה מואר בעידן טכנולוגי

4 ימים בחופשת החנוכה של שמחה, חקירה ויצירה

בימים: ראשון, שני, שלישי, רביעי 24.12.2020-01.01.2021

מיניקורסים לכיתות א'-ג'

11:30-13:30

חנוכה אביזרי חג 2.0

בקורס נעבוד במגוון מיומנויות סדא - נגרות, יצירת תבניות ויציקה, כדי להמציא מחדש את אביזרי החג.

09:00-11:00

לגו משימות

בקורס נלמד להרכיב ולתכנת דגמי לגו רובוטי, באמצעותם נודע להתמודד עם משימות אתגר שונות.

מיניקורסים לכיתות ד'-ו'

11:30-13:30

קופסאות אור וצל

בקורס נשלב שימוש בעיצוב וחינוך ממוחשב וחשמל בסיסי, ליצירת תמונה רב ממדיית מרהיבה.

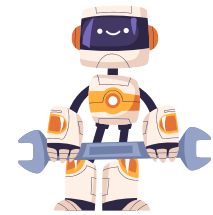
09:00-11:00

מכוניות על שלט

בקורס נלמד על עקרונות התנועה וההיגוי, נרכיב מכוניות בעיצוב אישי, נלחם מעגלים חשמליים, ונתחרה על קו הסיום.

14

Robot Battles



Robot battles drew participants of all ages. Teams designed robots for challenges like navigating obstacles and controlling adaptable structures. The activity encouraged teamwork and innovation.



18

Scholarships for Employees' Children

For the seventh year, Gevasol awarded scholarships to employees' children pursuing higher education. Recipients volunteered in the community as part of the program.



19

Magic Time for Displaced Families

In a challenging year, Idan Technology provided a supportive space for families displaced by war. "Magic Time" events brought parents and children together for creative, interactive activities, strengthening family and community bonds.



20

EDUT 710

In October, we hosted a talk with Yuval Brill, co-founder and editor of the 710 initiative. Attendees from across the region heard firsthand accounts and recorded testimonies from residents of the Otef Gaza communities about the events of October 7.


מפגש קהילתי ללא תשלום
בואו להיות ולהתחזק יחד

עדות 710

מאגר עדויות של אירועי שבעה באוקטובר 2023

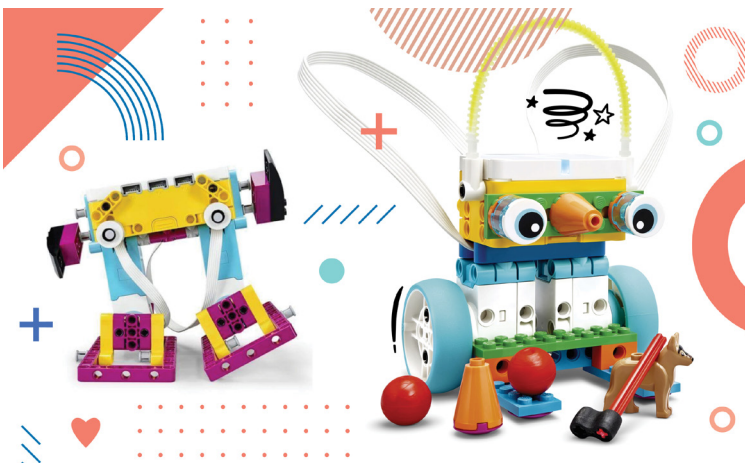
הזמנה למפגש והרצאה, בשילוב סרטוני עדויות של מי ששרדו את התופת. בהובלת יובל בריל, שותף בניהול מחלקת העריכה של המיזם.

יום רביעי | 09.10 | בעידן טכנולוגי
19:30 קפה ושוקולד | 20:00 מתחילים

15

Girls' Lego Robotics Course

In response to demand, Idan Technology launched a girls-only Lego robotics course, which quickly sold out. Participants explored robotics and reached key programming milestones.



קורס לגו GIRLS

17

Space Exploration Course

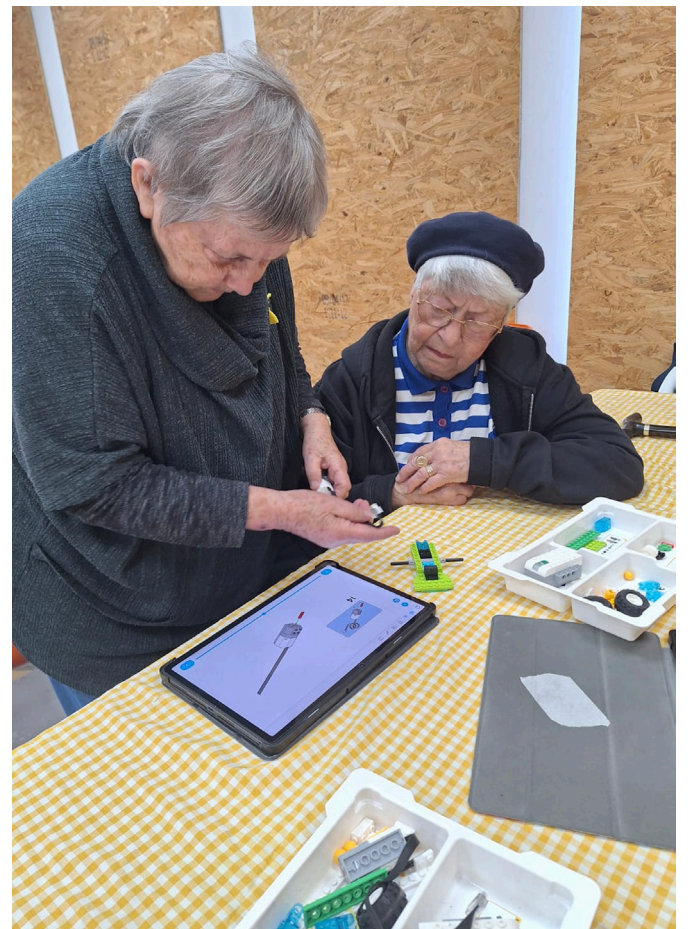
At a teacher's request, Idan Technology created a space exploration program. Students built models of telescopes, rockets, and autonomous probes. For their final project, teams designed solutions for living on Mars.



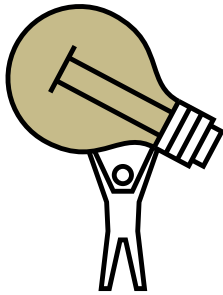
16

Hosting Senior Groups

Idan Technology hosted senior groups from local kibbutzim for tours and Lego robotics workshops. These visits highlighted local municipality activities and encouraged intergenerational learning.



21



From Idea to Product: Improving Reality

High school students designed products for specific client needs, including educational tools for a rehabilitation center, motor skills kits for a clinic, and an interactive memorial garden. They built and refined prototypes based on client feedback while addressing real-world challenges.

23

Advanced Physics Research Projects

For a year and a half, 11th and 12th-grade students from Gaon Hayarden, a local high school, worked with a Gevasol engineer on advanced physics research at Idan Technology.

Through this program, students explore electromagnetism, develop research questions, conduct experiments, and produce high-level projects equivalent to an additional five-unit physics course.

22

Farewells and New Beginnings

In January, we bid farewell to Tair Stern, who served as Idan Technology's pedagogical coordinator for seven years. We also said goodbye to Michal Aiger after eight years of dedicated work in October.

Though parting ways is never easy, we sincerely appreciate their contributions and wish them success in their future endeavors.

Idan Technology is a partnership between the Gevasol Group and the Springs Valley Regional Council in Israel. It encourages children, youth, and adults to try their hands at cutting-edge technology and engage in educational and innovative projects. Idan Center comprises Gevasol's offices, community educational spaces, and innovation centers.