



האקוטיזם

HACKAUTISM HUB 2021 YEAR BOOK

HackAutism - an ecosystem for entrepreneurship, innovation and technology focusing on Autism. Founded with the goal of improving the quality of life for people with Autism and their families.

www.hackautism.org

#AutismTech





Rimon Tubin
Hackautism and Hub
Founder & CEO

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Rimon Tubin - HackAutism Founder

I was never asked if I wanted to be a father of a child with autism. When the challenges came I realized that my way is to get up and take action. I founded Hackautism with a group of parents and partners.

I believe in bottom up innovation and open innovation, this is how we established AUTISM TECH in Israel. Our dreams are to expand to all disabilities and to all countries.

Dr. Temple Grandin, the most famous person with autism in the world, said that “the world needs people with different minds, because different minds can do different things better. Without autism the relativity theory wouldn’t have been discovered, and we probably would still be living in a cave.”

We have all greatly benefited from the gift that autism is – personally, socially, globally.

Whether we wished for it and took a part in it or otherwise.

I invite you to join me and acknowledge the doing, to express your support, and believe, truly believe, that it is always our choice to do good and to make a positive impact on our surroundings.

HackAutism Hub 2021 Team



Limor Poran
HackAutism Hub
Co-Founder &
Managing partner

Living alongside Autism taught me, as Kamala Harris says, to “Eat No for breakfast” I think this was the hub spirit. Launching, developing and operating it during 3th lockdown has proven again that the sky is the limit. I would like to take this opportunity to thank Rimon and the Hub’s devoted team, the amazing community we created together, the professionals who donated from their time to teach, mentor and consult. To the people on the Spectrum, who open to us their life and world. To my family that supported me and to Yoni, my Sunshine.



Ilana Mushkin
HackAutism
co-founder, Hub
managing partner

I joined the HackAutism dream team leadership in 2019 realizing that this innovation accelerator is groundbreaking in its definition and outcomes. We set out to provide professional entrepreneur guidance and cultivation in a truly inclusive environment. The HackAutism community includes entrepreneurs and mentors on the autism spectrum, tech and social innovators who are parents of special needs children. Learning from them and developing a unique model that fine tunes the startup development process for this population. HackAutism Hub 2021 is a true testimony to the success of this model and ecosystem



Shila Cohanim
Community Director



Emily Ishay
Project Manager



Tami Durst
Social Partner
Coordinator



Neta Grinfas
Mentor
Coordinator

Eran Dvir | Booklet Design

Maayan Rosenboim | Year Book executive

The HackAutism Hub

A professional Innovation Hub designed for the top 15 startup finalists in HackAutism 2.0 - hackathon, held in December 2020.

Co-founders Rimon Tubin and Limor Poran, parents of children on the autism spectrum, combined their skills and professional know how together with a dedicated team of volunteers, mentors, lecturers, to create an innovative impact framework for startups in the Autism domain.

The HackAutism was lead by a team of predominantly women volunteers who managed a 9 week virtual program, with minimal funding, for 9 weeks during severe Covid 19 lockdowns.

The program enabled the startups to develop from pre-seed and seed projects to business-ready nascent initiatives.

This yearbook is a showcase of HackAutism Hub's 2021 amazing #AutismTech startups.

- 15
AutismTech Startups
- 12
Meetups
attended by over 60
participants
- 40
lecturers, mentors
- 5
Autism experts who
are diagnosed with
ASD
- 2
Community Building
ODT events
- 1
TV Shark program
finalist



2021 Ventures

Hackautism - We design the future of autism



Fully personalized autism marketplace



Behavior management AI platform for tracking daily and night routine



A decision support platform for early assessment and continuous treatment of the autism



A wearable 'personal assistant' for social interactions using Augmented Reality glasses and powered by AI



An app that connects children and youth with and without autism based on location and shared interests



A smart digital consultant who helps parents of children on the autistic spectrum optimizing their acceptance processes.



visually transforms videos to improve communication, comprehension and treatment strategies for people with autism.



Program provides mental and practical tools for parents and personal support and accompaniment builds parenting ability and empowerment.



Proactively mediate-moderate day-to-day interactions of social, communicational and behavioral challenges, and outperform every day.



A platform that provides job offers online to freelancers and employees on the autism spectrum, along professional guidance online



A Virtual Reality platform for skill acquisition through serious games



Gamification of non-verbal communication skills



A personal assistant, helping to successfully complete compound tasks



A novel personalized AI-based ASD treatment ecosystem yielding most prominent intervention plans.

A decision support platform for early assessment and continuous treatment of the autism

BPAUS platform incorporates the best-known methods for autism treatment by creating a customized treatment plan and work environment. The detailed assessment allows identifying the child's most lacking domains by performing a set of tests and observations, the assessment data is sent to the application engine that generates the most suitable therapies for specialists' approval while using AI algorithms. Approved therapies are performed by parents, relatives, or specialists on the platform built-in tools. According to the results, the application confirms the assessment and provides new customized therapies. BPAUS enables the management of an extensive treatment plan for multiple patients in real-time.



Team



Anatoliy Stasyuk



Yuri Tselicov



Evgeny Borovsky



Leon Beilis

A wearable 'personal assistant' for social interactions using AR glasses and powered by AI

Arrows is a wearable 'personal assistant' for communications in the form of an app implemented on Augmented Reality glasses. It functions by projecting visual holographic feedbacks, while socializing, for users to react according to situations.

Feedbacks such as turn taking, adjusting tone of voice and avoiding stimming are presented as common animated icons for fast recognition and are only a part of the visual language we introduce to our users.



Team



Eran Dvir



Biran Shaar

A decision support platform for early assessment and continuous treatment of the autism

People on the autism spectrum often bring with them high professional skills. They are accurate, consistent and persistent. However, they often find it difficult to integrate into “regular” workplaces because of challenges that are not necessarily related to the work itself. Therefore, they find themselves having difficulties finding a decent job or having to settle for work that doesn't match their abilities. From this understanding we have built a web platform that will enable people on the autism spectrum to express their abilities while providing solutions to the challenges they face in the world of employment.



Team



Yehuda Gabizon



Zvia Gabizon



Team



Or Froind



Hila Lapidot



Helly Berger



Baruch Ozchakir

Fully personalized autism marketplace

A fully personalized Autism marketplace which includes:

- a unique search engine providing users with a quick, easy and accurate search experience
- resource guide and directory
- online store
- virtual city market
- academy for parents and therapists.

A Virtual Reality platform for skill acquisition through serious games

Simulars leverages Virtual Reality technology to support children with ASD, helping them acquire crucial skills in a fun and safe environment. The VR platform is coupled with a mobile application for a smartphone, tablet, or PC, providing caregivers full control over the training session, even in a remote session setting. The session is fully dynamic and stimuli levels can be controlled by the caregiver. The platform gathers and analyses different types of data - behavioural, physiological, and even feedback provided by the caregiver. By leveraging data, every child can receive a personalized training curriculum that fits his or her needs.



Team



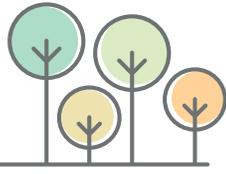
Omer Hadar



Ido Orenshtein



Sean Cohen



The Program provides mental and practical tools for parents and personal support and accompaniment

The online guide was created by Sagit & Sagi after more than 20 years of personal experience as a mother of 5 children, 3 of them on the autistic spectrum. Combined with accompanying hundreds of families. The program provides mental and practical tools that helps parents. Personal support and accompaniment ensures determination and builds parenting ability and empowerment. The lessons that the parent receives are available for him 24/7 and for life. Accessibility combined with a mentor with rich experience, available on the "hot line" for problem solving and accuracy of success are innovative and groundbreaking elements



Team



Sagi Raz



Sagit Raz



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A personal assistant, helping to successfully complete compound tasks

People with ASD often struggle to perform and complete activities that consist of several stages. In simple daily tasks such as taking a shower, certain actions may be neglected or delayed, requiring a caregiver's intervention. We created myti App to assist these people. Voice commands and responses that are timed and initiated by the App, act as a helper in completing the tasks. Task progress and success/failure completion is reported in real time to parents/Caregiver. Using myti App will reduce the dependence on caregivers and increase user's sense of achievement and self-confidence.



Team



Dror Cohen



Eti Amiel



Maayan Sarda



Ofer Finkelstein



Hagit Cohen Yeshurun



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Gamification of non-verbal communication skills

The user actively practices the skill of understanding and applying facial expressions, hand gestures and body language during the game. Unique artificial intelligence algorithm captures video of the user, monitors their behavior in real-time and provides immediate feedback regarding performance. By introducing cutting-edge technology to the field of autism therapy, parental involvement and child engagement are increased, while treatment time and costs are reduced.

After surmounting the difficult challenges within the autism spectrum, our long-term vision is to provide equal opportunities for all through the development of more effective non-verbal communication skills.



Team



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A smart digital consultant who helps parents of children on the autistic spectrum optimizing their acceptance processes.

The counselor increases the parents' sense of ability and confidence through a customized decision-making model. The consultant combines a variety of information sources that include additional user reports and professional articles, learns about the child's history, and uses artificial intelligence models to recommend the next steps and predict success.



Team



Maayan Rosenboim



Carmel Ariel



Barak Lazorik



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VOLUNTEENS is an app that connects children and youth with and without autism based on location and shared interests

Children and youth with autism suffer from social distancing and isolation all year long, many times they have difficulties making new friends from their natural surrounding and age group and socialize.

At the same time, many typical youth have a hard time finding places where they can be meaningful.

VOLUNTEENS connects children and youth with autism and youth volunteers, based on location and interests.

Furthermore, organizations and municipalities will have the option to use the app as a tool for managing and supporting the connections



Team



Amit Yizraeli



Omer Bental



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Visually transforms videos to improve communication, comprehension and treatment strategies for people

People with autism are neurodiverse. They think, learn, sense, and communicate differently. Because of that, they miss out on many important opportunities for learning - which are needed for independent life. Companies like YouTube, Netflix, many social networks, and other big data companies are not equipped to serve the 180 million people with uniquely different online preferences and entertainment interests. Online, neurodiverse people are a forgotten minority. They have to struggle with:

- Low social competence
- Limited learning curve
- Heavy financial costs
- Parental stress
- Lifetime need of support.

SNOWFLIX visually renders online videos to improve communication and comprehension. And creates new treatment strategies for neurodiverse people.



Team



Gilad Piker



Gilad Ariav



Ronen Shani



Yaron Genigar



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A novel personalized AI-based treatment ecosystem for patients with autism spectrum disorders (ASD) which determines the most prominent treatment combinations.

Our IMPACT platform is a unique personalized machine-learning ecosystem which optimizes intervention plans based on big data.

The platform connects users and therapists, learns their unique cognitive footprint, monitors their progress and generates adaptive recommendations for more optimal treatments.



Team



Asaf Hadad



Avi Dayan

Behavior management AI platform for tracking daily and night routine

Yalmo is a personalized AI platform that helps children with ASD communicate. Yalmo collects data from parents and caregivers regarding the child's activities during the day, and from contactless sensor about sleep quality of the child at night. Day & night data are aggregated and transferred to a cloud, where AI algorithm analyses the data, and detects patterns that might lead to challenging behaviour or sleep problems. Yalmo helps families and caregivers understand the reasons for the challenging behaviour, and provides practical advices to adjust daily routine of the child to improve his behaviour and quality of sleep



Team



Roman Karasik



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Proactively mediate-moderate day-to-day interactions of social, communicational and behavioral challenges, and outperform every day.

Set Mindset is a smart platform that proactively keep ASD persons and their care-givers in an emotional, behavioral and social shape in order to outperform every day.

An integrated system of methodologies and practices, an inside-out tool, combined with cutting-edge AI models and IoT devices.

It will reflect and suggest bridges across disciplines to promote linkage and empower social interactions that will improve one's self-sufficiency and well-being.

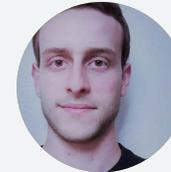
Our mission is to create a profound change in the lives of children with Autism Spectrum Disorder and their care-givers by allowing well-being and leading them into vital, meaningful and fulfilling life.



Team



Tal Argov



Matias Goldman



Alexey Maslennikov



Avi Hakhmigari



Victor Shagalov

HackAutism



Bringing together entrepreneurs from many backgrounds including people on the Autism spectrum and family members of people with special needs. Leading them through a program that encompasses lecturers and mentors from leading high-tech firms, Autism specialists, investors.

HackAutism, launched October 2019 now includes:

- December Annual Hackathon with hundreds of participants
- HackAutism Hub - a center of excellence to incubate the startups from the Hackathon into pilot-ready endeavors and/or Social Impact Accelerators
- HackAutism Tech Greenhouse - 8 month follow up framework designed to accompany the startups through their pilots and help prepare them for sustainable scale-up and investors.
- HackAutism Investor Gala - to launch our winning startups

HackAutism is unique both in its dedication to addressing the needs of a population of millions while at the same time, providing an inclusive, sensitive framework for people with special needs and their family members.

We invite you to join us by partnering with HackAutism to create a disruptive AutismTech Ecosystem.

HackAutism Management

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Yuval Wagner
President Access Israel

Nir Koren
HackAutism Hub Co-Founder

HackAutism 2.0 Judges

Zohar Levkovitz - "Shark Tank" TV series, CEO of Light

Yuval Wagner - President & Founder at Access Israel Org

Udi Heller - Autistic, and an activist for autistic rights, CEO at AAO - Autistic Affairs Office

Tami Wiesenfeld - National Supervisor of Service Accessibility. Commission for Equal Right of persons with disabilities

Rimon Tubin - Founder of Hackautism

Revital Almagor - Wireless Growth Product Line Manager at Intel Corporation

Prof. Yoram Rabin - President at The College of Management Academic Studies

Nir Koren - CEO & Founder of Buildinn innovation consulting & technology

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Lili Levinton - Deputy Director for Professional Services at Beit Issie Shapiro

Lihl Lapid - SHEKEL president

Jumana Nsier Hakim - D&I Community Manager

Jordana Cutler - Public Policy Director, Israel & the Jewish Diaspora, Facebook

Haim Bibas - Mayor of Modiin-Maccabim-Reut Municipality and Chairman of Federation of Local Authorities

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