

An introduction to:

robots **4** autism

from **ROBOKIND**



Robots4Autism + Milo

QUICK FACTS:

- Evidence-based Curriculum
 - Specifically designed to teach Social, Emotional, and Behavioral skills.
- Milo
 - A humanoid robot that delivers the curriculum in a consistent manner and that connects with the children in a way not accomplished by other humans.



ROBOTIC BREAKTHROUGH

CUTE ROBOTS HELPING CHILDREN WITH AUTISM

CNN

4:57 PM ET

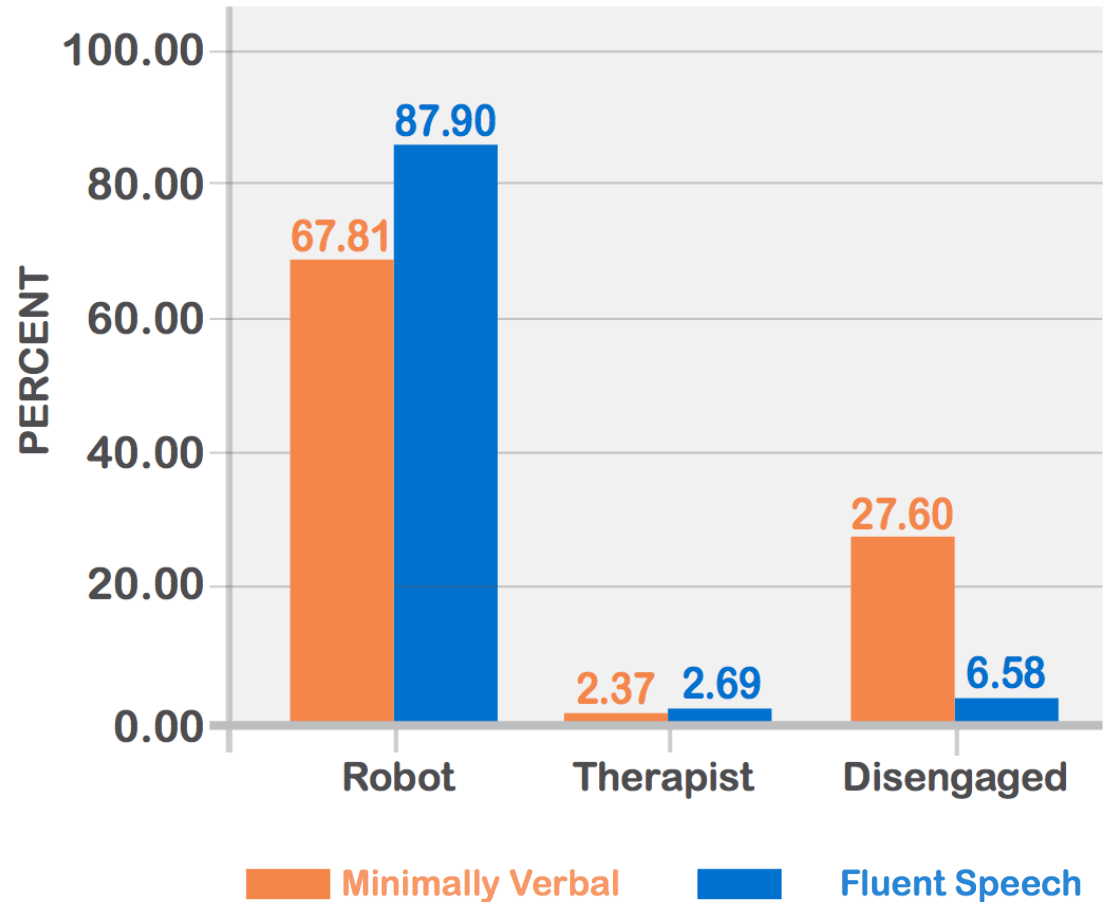
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CC HD THE LEAD

[Click here to see Milo on CNN.](#)

Engagement is Learning

Learners with ASD engage with Milo at rates as high as 90% compared with only 3% engagement with humans.



Life Changing Impact:

Behavior

- Rapid decreases in disruptions and meltdowns; increases in ability to concentrate.
- Due to Calm Down modules and acceptance of Milo as a friend.

Emotional Understanding

- Increased understanding of human emotions and their meanings creates a willingness to look at humans directly in their face.
- Creates confidence and willingness to engage in social situations.

Vocabulary

- Dramatic increases in verbalization and attempts to use language and expand vocabulary.

Home

- Changes in behavior and interaction at home and a recognition by parents that things have improved.

School

- Ability to function in school translates into rapid academic progress.

Spartanburg 7

BEFORE using Milo:

- Student receiving 35 hours of ABA treatment was totally dependent on prompting for success (very restrictive environment)...
- Student known for outbursts and inappropriate behavior...
- Student on half-day schedule due to tantruming and aggressive behavior all day...
- Student who had no gains on GARS 3 and was non-verbal for first 9 weeks...

AFTER using Milo:

- ...is now modeling without prompting.
- ...is now greeting and communicating emotions.
- ...has now moved to a full-day schedule.
- ...is now speaking functionally.

Spartanburg 7

BEFORE using Milo:

- Minimal progress...
- Minimal progress...
- Goal for all students to extend school beyond half day...
- All 17 students showed **minimal progress** towards IEP goals...

“Without Milo, we could not have good outcomes.”

Elena Ghionis
Spartanburg Program Manager

AFTER using Milo:

- One student expanded vocabulary from 5 to 100 words using sentences.
- 8 students showed improvement on the 4- and 6-score GARS 3 index.
- ...all 17 students were moved to **full day** school (after 2.5 months).
- ...all 17 showed **significant progress** and **mastery** related to social, communication, behavioral, and academic goals (27 weeks).
- **One third** of all 17 students are returning to **mainstream classrooms**.

Spartanburg 7

Economic Benefits (from the 27 week trial):

- Three students identified for residential services learned and demonstrated behavior abilities to the level that it was determined they could stay in public school.
 - Cost avoidance equaled approximately \$47,000 per student per year or \$141,000 for the next school year.
- The progress of 5 students was significant enough that they did not have to be placed in an additional summer program.
 - An economic value of approximately \$10,000.
- Returning one student to regular education classes was a cost savings of \$13,000.
 - Annual indirect/direct costs for services totals approximately \$21,000.
- In total, Spartanburg 7 realized an economic benefit of approximately \$185,000 from a \$6,000 investment in Robots4Autism.
 - The annual per student cost for Robots4Autism was \$400 per student
 - Also realized increased quality teaching time as a result of decreased class interruptions (tantrums, etc.).
- The cost for services was 30 times the cost of Robots4Autism.

The evidence shows that Robots4Autism creates a very positive return for the district in addition to its' core education and human development mission.

Economic Impact

- 50% Experience life-changing impact in 1-4 months
 - Rapid decreases in disruptions and meltdowns
 - Increased understanding of human emotions and their meanings
 - Dramatic increases in verbalization and attempts to use language and expand vocabulary
 - Changes in behavior and interaction at home
- 20 x Economic Benefit through cost avoidance



[Click here to hear Celia's mom describe how Milo changed her life.](#)

THANK YOU!

robots **4** autism

from **ROBOKIND**

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