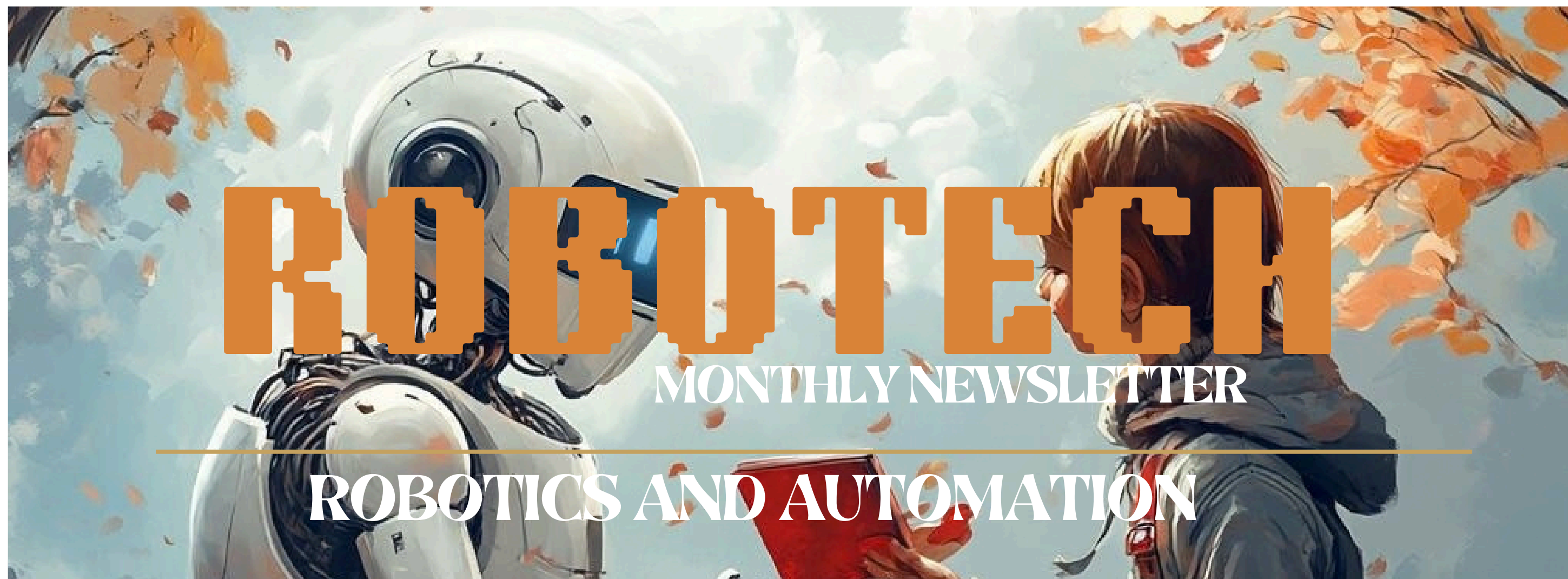




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Vision

Progress through quality education and evolve into a center for academic excellence in the field of Robotics and Automation.

Mission

To provide a supportive academic environment for value-added education and continuous improvement to become the leaders in robotic research and education. To develop socially responsible engineers with technical competence, leadership skills and team spirit.

FROM CLASSROOMS TO CUTTING-EDGE TECHNOLOGY

An exposure visit to robotics, drone technology and future careers



GHSS Chembuchira Students Explore Robotics, Drones and Future Technologies

Students of GHSS Chembuchira, Thrissur explored robotics, drones, innovation, and future career pathways through an engaging educational exposure visit held as part of the Kerala Government's KITE initiative.

As part of the Kerala Government's KITE initiative, students of GHSS Chembuchira, Thrissur visited the Department of Robotics and Automation on 05-09-2026 for an engaging and informative exposure programme. The visit offered students an opportunity to connect classroom learning with emerging technologies and discover how robotics and innovation are shaping the future. The programme began with an orientation by Prof. Arun Kumar, who introduced the students to the fundamentals of robotics and its wide-ranging applications. Prof. Ranjeesh R. Chandran led a session on emerging technology domains and the career pathways connected with them. The session encouraged students to look beyond familiar career choices and consider the growing opportunities available in technology-driven fields.

The Department's Drone Club conducted an awareness session that introduced students to the possibilities and applications of drone technology. The programme also included a live drone-flying demonstration, giving students the chance to observe the technology in action. The visit continued with an interaction at Humynex Robotics, the startup founded by the Mr. Pranav S Pillai Department's technical staff. This part of the programme gave students insight into the practical applications of robotics, innovation, and entrepreneurship.

The positive feedback from students and accompanying teachers reflected the value of an exposure programme that connects learning with emerging technologies and related career opportunities.

INTERCOLLEGIATE PROJECT EXHIBITION & PROJECT

Robotics & Automation students showcase innovation, technical knowledge and problem-solving at St. Thomas Public School, Perumbavoor.



Showcasing innovation beyond class room.

As part of the School Outreach Programme of the Department of Robotics and Automation, Prof. Renjeesh R. Chandran and Mr. Pranav S Pillai, along with students of Department, participated in Silver Quest-26, an Intercollegiate Project exhibition and competition at St. Thomas Public School, Perumbavoor on 14th September. The team received the Third Prize at Silver Quest 2026, celebrating their project and innovation.

The event provided an engaging platform for students to showcase their innovative projects and demonstrate their technical knowledge and problem-solving skills and an opportunity to interact with students from other institutions.

‘സിൽവർ ക്വസ്റ്റ്’ -26’ നടത്തി

പെരുമ്പാവൂർ • ഇരിങ്ങാശ്ശി സെന്റ് തോമസ് പബ്ലിക് സ്കൂൾ സിൽവർ ജൂബിലി ആഘോഷങ്ങളോടനുബന്ധിച്ച് ശാസ്ത്ര പ്രദർശനവും മത്സരവും ‘സിൽവർ ക്വസ്റ്റ് -26’ നടത്തി. മനോജ് മുത്തേടൻ എ.എൽ.എ ഉദ്ഘാടനം ചെയ്തു. കോളജുകളുടെ മത്സരത്തിൽ നെല്ലിക്കുഴി ഇന്ദിരാഗാന്ധി ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് എൻജിനീയറിങ് ആൻഡ് ടെക്നോളജി ഒന്നാം സ്ഥാനം നേടി. വാഴക്കുളം വിശ്വ ജ്യോതി കോളജ് ഓഫ് എൻജിനീയറിങ് ആൻഡ് ടെക്നോളജി രണ്ടാം സ്ഥാനവും കാലടി ആദിശങ്കര ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് എൻജിനീയറിങ് ടെക്നോളജി മൂന്നാം സ്ഥാനവും കരസ്ഥമാക്കി. ഐഎസ്ആർഒ, നാസയിൽ മെഡിക്കൽ കോളജ്, സെൻട്രൽ മറൈൻ ഫിഷറീസ്, ഫയർ ആൻഡ് സേഫ്റ്റി, സ്റ്റേറ്റ് ആർക്കൈവ്സ് തുടങ്ങിയവ പ്രദർശനത്തിൽ പങ്കെടുത്തു. സമാപന സമ്മേളനം സ്മാർട്ട് ലിസ് മേധാവി കെ.എസ്. സുദർശൻ ഉദ്ഘാടനം ചെയ്തു. സ്കൂൾ മാനേജർ ഫാ.ജോൺ പുത്തൂരാൻ അധ്യക്ഷത വഹിച്ചു. സിബിഎസ്ഇ സിറ്റി കോഓർഡിനേറ്റർ സുചിത്ര ഷൈജിത്ത്, പിടിഡബ്ല്യുഎ പ്രസിഡന്റ് ബേസിൽ പോൾ, അഡ്മിനിസ്ട്രേറ്റർ ആൻലി നൂബി, പ്രിൻസിപ്പൽ ജൂബിയ ട്രിസ്ലറ്റ് പോൾ എന്നിവർ പ്രസംഗിച്ചു.

THIRD PRIZE



The team receives the Third Prize at Silver Quest 2026, celebrating their project and innovation.



DEPARTMENT OF ROBOTICS AND AUTOMATION

ADI SHANKARA INSTITUTE OF ENGINEERING & TECHNOLOGY



MoU Signed with Unique World Robotics India

The Department of Robotics and Automation, Adi Shankara Institute of Engineering & Technology, Kalady, has signed a Memorandum of Understanding (MoU) with Unique World Robotics India, Thiruvananthapuram. The MoU aims to strengthen the collaboration between the institution and the robotics industry.

The collaboration focuses on placement assistance, internship opportunities, technology transfer, and industry-oriented academic activities. It will provide students with greater exposure to the latest developments and practices in the field of robotics and automation.

Through this partnership, students will have opportunities to gain practical knowledge and experience by interacting with industry professionals and exploring emerging robotic technologies. Such exposure will help them connect their academic learning with real-world industrial applications.

The MoU is expected to create new opportunities for students in terms of internships, career development, and industry engagement. It also reflects the department's commitment to providing students with industry-relevant learning and preparing them for future opportunities in the rapidly developing field of robotics and automation.



LEARN



INNOVATE



BUILD

THE FUTURE



TEACHERS' DAY CELEBRATION

S7_{R & A}



Students and teachers together, sharing a cake and a lot of smiles.

The S7 Robotics and Automation students celebrated Teachers' Day with great enthusiasm, expressing their heartfelt gratitude and appreciation towards their teachers for their constant guidance, support, and inspiration.

Moments Together

The celebration featured engaging activities and memorable moments that brought students and faculty together. The students conveyed their respect and gratitude through thoughtful gestures, making the occasion a warm and meaningful one.

Teachers Shape Futures

The event served as a reminder of the invaluable role teachers play in shaping students' knowledge, skills, and future. It was a joyful celebration filled with appreciation, laughter, and cherished memories.

Congratulations ABHISHEK!

Congratulations

For Being Selected To MYOSA 6.0
PHASE-1



Mruthula S
S5 AI



Sreeparvathy Preeth
S5 EBE



Mohamed Razin Mujeeb
S5 AI



Abhishek Somarajan
S5 RA

Congrats

The Department of Robotics and Automation is proud to announce that ***Abhishek Somarajan of S5 RA*** has been selected for ***MYOSA 6.0 Phase-1***, a prestigious mentoring and upskilling program.

His selection stands as a proud moment for the entire RA family and reflects his dedication, creativity, and commitment to learning beyond academics.

MYOSA 6.0 offers a platform for students to enhance their technical, leadership, and entrepreneurial skills through expert mentoring and hands-on exposure.

The Department extends its heartfelt congratulations to Abhishek and wishes him great success in the upcoming phases of MYOSA 6.0.

We are proud of you, Abhishek!

ROBOTICS & AUTOMATION • 22 SEPTEMBER 2026

SMART INDIA HACKATHON

2

FINALISTS



Team QuadX receives their award on stage.



Finalists receive their certificates from the judges.



A cheerful moment with the judges and faculty.

Nine teams from the Department of Robotics and Automation were shortlisted for the internal Smart India Hackathon, and two of them, Robonova and QuadX, made it into the final seven. Presenting their ideas before the judges, both teams showed the problem-solving spirit and technical skill our department is known for.

OUR FINALISTS

CONSOLATION FINALIST

Robonova

₹4,000

Led by Adithyan M • S3 RA

4th place • 261 marks

An autonomous palm-climbing robot powered by a camera, Raspberry Pi AI and an actuated cutting arm. It identifies and harvests only mature arecanuts while sparing the unripe ones, reducing heavy manual labour and operating costs while improving plantation yield and harvest quality.

CONSOLATION FINALIST

QuadX

₹2,000

Led by Joson Jose • S7 RA

7th place • 248 marks

An on-device Edge-AI retail monitoring system using smart cameras, Qualcomm edge hardware and YOLO-based vision. It tracks shopper movement, shelf stock and checkout queues locally, with no raw video sent to the cloud, giving private, low-latency insights that work even offline.

ASIET STUDENT APPOINTED AS REGIONAL COORDINATOR OF ERNAKULAM NRPF!



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
NATIONAL SERVICE SCHEME CELL
NATURAL RESOURCE PROTECTION FORCE (NRPF)
ERNAKULAM REGION

FACULTY CO-ORDINATOR


Mr. Muhammed Jaseem KM
IET

REGIONAL COORDINATORS 2026-2027

 Chriswin
AISAT

 Namitha
ASIET

 Sharafan
FISAT

 Mridul Biju
MES

 Arjun KR
MBITS

SENIOR MENTORS

 Athulraj K
MEC

 Fathimath Meha Muneer
FISAT

 Gouri Nandha PS
RSET

 Jinusree M
ASIET

 Jishnu S
FISAT

Namitha, a student of the Department of Robotics & Automation at ASIET, has been selected as one of the Regional Coordinators of the Natural Resource Protection Force (NRPF), Ernakulam Region, for the 2026-27 term.

The Natural Resource Protection Force (NRPF), functioning under the APJ Abdul Kalam Technological University National Service Scheme (KTU NSS) Cell, works towards promoting environmental awareness, conservation, and responsible protection of natural resources.

As a Regional Coordinator, Namitha will be part of a team committed to coordinating initiatives, encouraging student participation, and contributing to meaningful environmental activities across the region.

Her selection reflects the spirit of leadership, social responsibility, and active community engagement among students of the Department of Robotics & Automation.

ASIET congratulates Namitha on this achievement and wishes her success in her new role! 🌿💚

TECH INSIGHTS

The Unseen Test: Robots That Learn Without Reprogramming

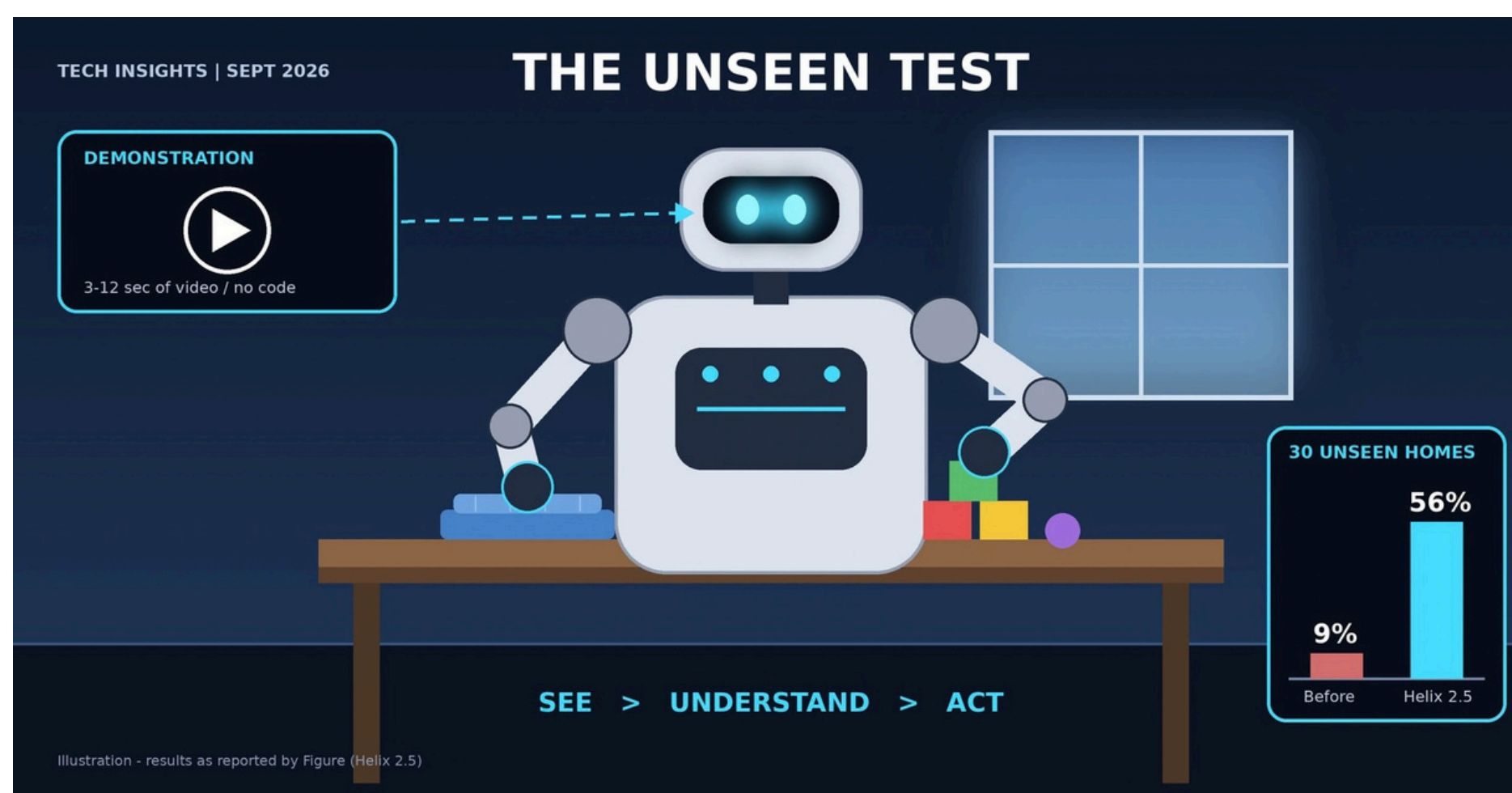


Illustration: a humanoid learns a tabletop task from a short demonstration. Schematic, not a photograph. Result shown is as reported by Figure for Helix 2.5.

A robot that folds a towel perfectly in the lab where it was trained has proven very little. Move the table, swap the towel, or let someone nudge it halfway through, and many systems fall apart. That gap between a demo and a dependable machine is where robotics research spent September 2026, and several teams came back with numbers.

Helix 2.5 model is put through the hardest version of the test: tidying toys, folding towels and making beds in 30 homes the robot had never seen, with no extra fine-tuning for any of them. Pretraining on Index, the company's dataset of human behavior, lifted complete-task success from 9% to 56%.

Helix 2.5 is a vision-language-action (VLA) model, the same class as pi-0 and SmolVLA. It is one network that takes in what the robot sees and what it is told, and outputs what the robot should do. The robot learned its skills elsewhere and then met new homes and new objects cold.

BY THE NUMBERS

9% to 56%

Helix 2.5 complete-task success in 30 unseen homes

3-12 s

Demonstration GEN-1.5 needs to attempt a new task

82%

Facet-0 average success on five assembly tasks, vs 15% for the best baseline

96.4%

Safe-Stop successful stops in 179,650 simulated episodes

5 million+

Industrial robots operating worldwide (IFR)

Show it once

A second idea skips retraining altogether. Skild's S1 places a demonstration video in its context window and uses it to guide the robot, without updating its weights. Its examples include potting plants, making pancakes and brewing coffee, with tasks running up to ten minutes.

Generalist's GEN-1.5 does something similar with only 3 to 12 seconds of demonstration, attempting jobs such as opening a zipper or unscrewing a jar. It averaged 59% across ten tasks with no weight updates, and 83% after a short fine-tuning pass on five minutes of data per task. Its prompts carry sensor data and action trajectories, not just ordinary video, and the tasks remain short and fairly simple.

“Before believing any robotics percentage, ask what counted as success.”

Touch, and knowing when to stop

Intelligence is not the only bottleneck. Assembling a computer takes more than knowing where a part belongs; the robot must feel the forces when parts touch. Facet-0 combines images, instructions and wrist force-and-torque readings to predict both movements and their contact effects, and across five precision assembly tasks it reached 82% average success against 15% for the strongest baseline tested.

Safety work moved too. Safe-Stop tackles a question that sounds simple: what should a running humanoid do when someone presses stop? It estimates whether the robot can still reach a stable standing position. If so, a learned stopping controller takes over; if not, the robot switches to damping its fall. In Unitree G1 simulations it succeeded in 96.4% of 179,650 valid episodes.

JARGON, DECODED

VLA model. Vision-language-action: one network that takes in camera images and a spoken or written instruction and outputs motor actions.

In-context learning. Guiding a model with an example placed in its input, instead of retraining its weights. **Fine-tuning.** Further training on a small amount of task-specific data.

Baseline. The strongest existing method a new result is compared against.

Reading the fine print

These figures are encouraging, but they measure different things. Skild's headline 66%, against 9% for a language-prompted model trained on the same 100,000 hours of data, counts cumulative per-step success, with human interventions used to recover from failures, mainly for the baseline. It is not a 66% autonomous completion rate. Facet-0's result comes from a controlled setup, and

Safe-Stop's comes from simulation. Progress is real, and so is the distance to dependable.

From the lab to the factory floor

Industry is moving in parallel. More than five million industrial robots now operate in factories worldwide, according to the IFR's World Robotics 2026 report, and the global operational stock grew by 9%.

FANUC, working with Google on Gemini Enterprise, introduced an AI Welding Agent. An operator captures a component drawing with the camera in the CRX robot's tablet controller, and the agent generates welding settings, including current and voltage, along with the robot's motion program. The operator can review or adjust it before welding. Shipments are planned for the end of December 2026.

Agility's Digit 5 humanoid, built for industrial work, is designed to lift 22.7 kg repeatedly, run for 90 minutes and recharge in nine minutes. Its safety architecture detects nearby people and uses an independent controller to trigger avoidance, stopping or sitting. Early access is expected in the first half of 2027. Meanwhile Sam Altman said OpenAI plans to build humanoids and other robot bodies, starting with infrastructure and manufacturing, though no launch date or manufacturing partner has been announced.

What it means for engineers

If robots are shown rather than programmed, the engineer's work moves up a level: specifying the job, validating what the robot proposes, and supervising it. Even FANUC's agent hands the operator a program to check. Safety certification and honest measurement become core skills rather than afterthoughts.

For anyone studying automation, the lesson of September is that machine intelligence is advancing quickly, but trust is still built on how carefully the results are measured.

QUICK TAKEAWAY

Ask three questions of any robotics claim: what counts as success, was a human helping, and was it tested in the real world?

Sources: Turing Post, “The Latest Breakthroughs in Robotics: September 2026”; IEEE RAS, “Robots in Society, Business and Culture: September 2026”; company announcements from Figure, Skild AI, Generalist, FANUC and Agility Robotics.

PARAVATHY KRISHNA
S5RA

STAFF EDITORS

Dr Sreedeeep Krishnan (HOD)

Dr. Julia.T.J

STUDENT EDITORS

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Fayaz Bin Sathar S3RA

Devika K S S1 RA

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