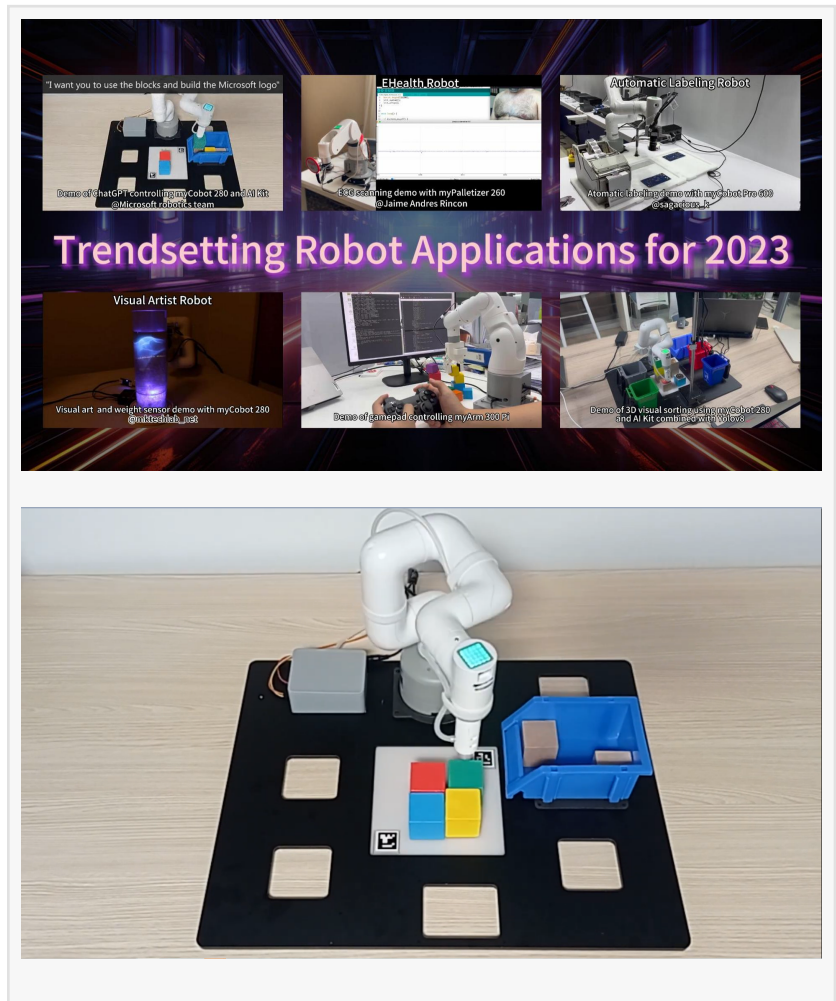


# Elephant Robotics Thrives in 2023: A Year of Innovative Collaborative Achievements

*Elephant Robotics proudly presents 7 unique robot application cases contributed by users worldwide in 2023.*

SHENZHEN, GUANGDONG, CHINA,  
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[EINPresswire.com/](https://www.einpresswire.com/) -- [Elephant Robotics](#), a trailblazer in the realm of robotic innovation, joyfully commemorates the remarkable success achieved in the transformative year of 2023. The introduction of cutting-edge robotic products, such as the 4 DOF robotic arm ultraArm P340, the 7 DOF robotic arm myArm 300 Pi, the humanoid robot Mercury series, the Robotics Education Solution, AI Kit 2023 and AI Kit 3D version, has firmly established Elephant Robotics as an eminent force in the robotics industry. Committed to meeting dynamic market demands, Elephant Robotics has upgraded their acclaimed myCobot 280 series and myAGV 2023. Actively engaging in diverse global projects, Elephant Robotics has amplified the global impact of their robotic products. Today, Elephant Robotics proudly unveil 7 exceptional application cases, providing valuable insights into the unparalleled versatility and effectiveness of their robotic arms.



## ChatGPT for Robotics

Researchers from the [Microsoft](#) Autonomous Systems and Robotics Group utilized ChatGPT, a language model, to command Elephant Robotics' 6 DOF robotic arm, myCobot 280. The project resulted in the precise rendering of the Microsoft logo. The team established a methodology and

design principles based on the prompting large language model (LLM), leveraging ChatGPT in simulated industrial inspection scenarios. The model demonstrated versatility by learning complex operations like stacking blocks, showcasing the potential of language models in robotics tasks.

### eHealth Robot

The collaborative robotic arm plays an increasingly important role in the medical field in recent years. An eHealth robot refers to a robot or robotic system that is designed and utilized in the field of healthcare and telemedicine. Jaime Andres Rincon

Arango, a researcher from the Polytechnic University of Valencia, proposed an eHealth Robotic Arm project, using Elephant Robotics' 4 DOF robotic arm, myPalletizer 260, and other hardware to create a teleoperated robotic system to perform a basic remote medical check, such as taking a phonocardiography signal. The E-Health Robot, with virtual reality immersion, detected chest areas and acquired heart sounds. The Normcore tool facilitated seamless communication between physical and virtual robots, highlighting its potential in healthcare and telemedicine.

### Educational Robot

3D vision technology is a technique used to acquire three-dimensional information about objects using cameras or sensors. Recognizing the growing importance of robotics in education, a project from Tsinghua University showcased the integration of Elephant Robotics' 6 DOF robotic arm, myCobot 280, and AI Kit with 3D vision technology. The project aimed to program the robot for 3D vision-based sorting tasks, emphasizing the role of robotics combined with advanced visual perception in educational applications. Compared to 2D vision, 3D vision technology provides more accurate, detailed, and comprehensive visual perception in the field of robotics, enabling robots to better understand and interact with the environment.

### Bartender Robot

Tuan Huynh, Vincent Nieraad, and Ardian Nuredini from LMU Munich proposed the Bartender Robot project, featuring a built-in voice recognition system for easy drink orders. Sven Mayer designed the Bartender Robot with Elephant Robotics' 6 DOF robot arm myCobot 280 M5, myCobot adaptive gripper, and essential ingredients. This innovative system streamlines the



drink-making process, reducing wait times and increasing customer satisfaction in settings like bars and restaurants. The Bartender Robot showcases the potential to revolutionize the beverage service industry.

### Visual Artist Robot

Mktechlab\_net, an innovative maker on Twitter, has ingeniously developed a visual artist project. Using the 6 DOF robotic arm myCobot 280, Mktechlab\_net has integrated weight-sensor detection technology to craft a unique visual experience of glowing cocktail glasses atop personally crafted coasters. By integrating the weight sensor, myCobot 280 is able to project dynamic images based on specific drinks and the environment, creating visually engaging and aesthetically pleasing representations.

### Garbage Collection Robot

Miyawaki, a robotics engineer and researcher from the Department of Information Science at Osaka Institute of Technology, innovatively developed the "Garbage Collection Robot" project by repurposing an older robot in conjunction with myCobot 280. This revolutionary garbage collection robot leverages the SLAM navigation functionality of the Automated Guided Vehicle, enabling it to autonomously navigate to the garbage location. Subsequently, the robot arm adeptly identifies and detects the target object, utilizing the myCobot Suction Pump 2.0 to efficiently collect the bottle. Finally, the robot seamlessly transports the gathered waste to the designated garbage collection station.

### [The MagPi](#) Review

The MagPi, Raspberry Pi's official magazine, has featured a comprehensive 2-page review of myCobot 280 Pi in the latest issue, The MagPi issue 137. This extensive review in The MagPi served as a testament to the remarkable qualities of Elephant Robotics' myCobot 280 Pi. It provided an in-depth exploration of the 6 DOF robotic arm's outstanding features and capabilities. From its precision in movement to its intuitive user interface, the review illuminated the myCobot 280 Pi's role as a standout player in the ever-evolving field of robotics. The accolades not only recognized the technical prowess of the robotic arm but also emphasized its profound impact on reshaping the landscape of robotics technology.

These cases not only showcase Elephant Robotics' technical excellence but also highlight the widespread recognition and positive customer reviews across diverse industries globally. In healthcare, Elephant Robotics' precision and agility are evident in the successful eHealth robot implementation. In education, over 300 renowned universities globally, including University College London, University of Bristol, and University of Houston, have embraced Elephant Robotics' educational robot products. In personal research and development, robotics enthusiasts have demonstrated creative art projects and research using Elephant Robotics' robotic arms for fabrication. These applications emphasize Elephant Robotics' groundbreaking

contributions, expanding the possibilities of robotics.

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