

APRIL 2021

# SCAR ROBO

THE LATEST NEWS AND EVENTS FROM SCAR ROBO



## FEATURED ON THIS MONTH'S NEWSLETTER:

*New machine learning theory raises questions about the nature of science*

**The \$2,100-A-Month Factory Robot: Rapid Robotics Pushes To Automate Small Manufacturers, Helped By \$12 Million In New Funding**

**AI can make accurate assessment of whether a person will die from COVID-19, study finds**

Read below to learn more!

Game Night  
Coming Soon!

## NEW MACHINE LEARNING THEORY RAISES QUESTIONS ABOUT THE NATURE OF SCIENCE

Source: DOE/Princeton Plasma Physics Laboratory. "New machine learning theory raises questions about the nature of science." ScienceDaily. ScienceDaily, 12 February 2021. <[www.sciencedaily.com/releases/2021/02/210212094120.htm](https://www.sciencedaily.com/releases/2021/02/210212094120.htm)>

Researchers at the U.S. Department of Energy's (DOE) Princeton Plasma Physics Laboratory (PPPL) creating a computer algorithm that applies machine learning to make scientific observations that can replace the use of theories and laws of physics. The research follows the philosophical theory that states, the universe is like a computer simulation, and if that's true then the world would be distinct from individual parts



Adapting this idea, and with the theory of discrete fields, computers can collect data points which will then help to make accurate observations. The main goal of the research is to eventually replicate the fusion on Earth and discover a virtual source to generate electricity.

## THE \$2,100-A-MONTH FACTORY ROBOT: RAPID ROBOTICS PUSHES TO AUTOMATE SMALL MANUFACTURERS, HELPED BY \$12 MILLION IN NEW FUNDING

Forbes: "The \$2,100-A-Month Factory Robot: Rapid Robotics Pushes To Automate Small Manufacturers, Helped By \$12 Million In New Funding". Amy Feldman April 6, 2021 <<https://www.forbes.com/sites/amyfeldman/2021/04/06/the-2100-a-month-factory-robot-rapid-robotics-pushes-to-automate-small-manufacturers-helped-by-12-million-in-new-funding/?sh=bb08b9b53a67>>

A San Francisco based startup company "Rapid Robotics" has successfully programmed and manufactured robots to perform simple labor oriented jobs. Co-founders Jordan Kretchmer and Ruddick Lawrence intended to produce a machine that can perform tasks that can be done by laborers in assembly lines of manufacturing for companies. This can include simple work from heat stamping logos on products, pad printing etc; in other words "We don't have a robot that shows off all its fancy footwork. We have a robot that can be programmed using AI to do very specific tasks that are ubiquitous across manufacturing facilities, especially contract manufacturers" says Kretchmer when explaining its simplicity. They realized with the whole virus outbreak, many companies

could not afford to hire enough people to do these tasks. They turned this problem into a solution by specifically marketing to local companies. Last year one of their first clients, Westec Plastics struggled to keep up with the demand of PCR test kits in light of COVID-19's onset. They went from 400,000 to 4 million orders in one quarter, and obviously they did not have enough workers to fill that demand in a reasonable time due to social distancing rules and financial restrictions to keep everyone working. Rapid Robotics jumped in and manufactured Robots which helped stamp and seal all of these kits rapidly and efficiently at a cheaper cost than what it would have taken to hire more workers. As basic as Rapid's orange robots look, their unique design stems from the AI driven software and



Summarized by: Farzad Inam

vision tracking systems inside that are able to replicate standard hand movements in an efficient manner. They purchased off-the-shelf robotic arms, removed their current applications and installed their own proprietary AI and vision tracking programs. The grippers are also 3-D printed so they can be replaced cheaply. To date, Rapid has generated revenue in the range of 2-3 million dollars and they have plans to expand into midwest USA for which they have raised an additional \$12 million. In terms of pricing, they charge \$3,750/month per robot for the first year and \$2100/month after that. Rapid also plans to further expand their design to include more features but for now their robots seem like an opportunistic success.

For more information about their design and pricing you can visit: <https://www.rapidrobotics.com>.

Executive team has been hired and ready to serve

Over 50 members have joined our Discord

## AI CAN MAKE ACCURATE ASSESSMENT OF WHETHER A PERSON WILL DIE FROM COVID-19, STUDY FINDS

University of Copenhagen - Faculty of Science. "AI can make accurate assessment of whether a person will die from COVID-19, study finds." ScienceDaily. ScienceDaily, 5 February 2021. <[www.sciencedaily.com/releases/2021/02/210205104219.htm](http://www.sciencedaily.com/releases/2021/02/210205104219.htm)>

New research on COVID-19 was held at the University of Copenhagen's Department of Computer Science. According to the researchers, artificial intelligence is able to predict whether a patient will be able to fight COVID-19 or not. The prediction can be up to 90 percent accurate and is not able to replace doctors' assessment, however, it will create cooperation with the doctors and hospitals to make decisions like who should receive vaccines first, and the need for respirators. The data for the research was collected from 3,944 COVID-19 patients in Denmark. Using the data, the computer was able to recognize patterns relations between patients' medical history and current health status.

According to the result of the study, a patient's age, BMI, blood pressure level, gender, neurological diseases, COPD, asthma, diabetes, and heart diseases play a vital role in the effect of COVID-19. "For those affected by one or more of these parameters, we have found that it may make sense to move them up in the vaccine queue, to avoid any risk of them becoming infected and eventually ending up on a respirator," says Professor Mads Nielsen at the University of Copenhagen. Even though there is still some technical operation at pending state, the goal of the study is to be able to make a prediction regarding the need for respirators at least five days in advance for all COVID-19 positive regions.



## LOOK OUT FOR..

Game Night Event Details  
Getting to Know the New Executives  
and more!

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“TRUST YOURSELF, YOU KNOW MORE THAN YOU THINK YOU DO” - BENJAMIN SPOCK

GOOD LUCK ON EXAMS EVERYONE!

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