

SECOND QUARTER
**TRANSACTIONS
REPORT 2018**

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Source: iStock

China Evergrande led the past quarter with several large investments in automation.

Chinese Funds Lead Q2 Automation Transactions

By Jim Nash

In the second quarter of 2018, China's second-largest real-estate developer announced that it will raise a \$16 billion technology investment fund over the next decade. Advanced automation hardware and software will be a major focus of the fund, created by the China Evergrande Group.

At \$1.59 billion per year, [this commitment](#) was the largest robotics transaction of the second quarter. And while far larger funds have been announced in the past couple of years, the importance of debt-swamped China Evergrande's move transcends the quarter.

And in a June deal, one of China Evergrande's subsidiaries sank \$860 million [into Faraday Future](#), the troubled and previously money-starved startup developing a sleek, artificial intelligence-enhanced car, the FF91. China Evergrande pledged another \$1.2 billion in two more payments, for a total of

about \$2 billion. (More on this and other significant deals below.)

Advanced automation's rise to economic and cultural ubiquity ultimately may not resemble the legendary hockey-stick path, but this fund's creation will have been found to be very close to the industry's first real climb.

That's because, back in 2015, China's government decided to re-align the world's second-largest (and centrally controlled) economy. The aim of Made in China 2025, as the 10-year campaign is called, is to make the country the undisputed [global leader in automation](#) and other technologies.

This focus likely will do for robotics what a previous plan out of Beijing did for global manufacturing.

This move could be chalked up to simple politics. Hui Ka Yan, China Evergrande's founder and chairman, might be showing \$16 billion worth of loyalty to China's leader, Xi Jinping. But even if that were the only reason, the new fund shows how seriously the nation's powerful and wealthy take Xi's priorities.

Hui could just be trying to re-energize the publicly traded company. Shares of the firm have fallen by a third following a big 2017. But his choice -- automation -- indicates that even a [Chinese land developer](#) sees a lot of short- to mid-term upside with the move.

ROBOTICS PART OF CHINESE DIVERSIFICATION

Also in the second quarter, China Evergrande invested in another hot economic area -- healthcare. It's small by comparison: \$4 billion. Fully \$4 billion will [build](#) a "Silicon Valley for health care" in Chongqing. If funding is the focus, it would seem the company sees several times more opportunity in robotics and other technology.

TRANSACTIONS REPORT 2018 FIRST QUARTER

Still, maybe it's just a diversification play. Like most large Asian firms, China Evergrande is involved in dozens of side bets, such as subsidiaries involving the Internet and medical cosmetology.

All of the above influenced Hui, and the same is true across China. Indeed, each of the previous theories point to broader Chinese investment in robotics. The result will be accelerated growth for automation.

It bears mentioning that during the first quarter, in Japan, Nikko Asset Management's robotics equity fund hit the psychologically important 1 trillion yen, or \$9.17 billion, asset benchmark.

Nikkei Asian Review [proclaimed](#) that Japanese investment money is leaving the monthly dividends of investment trusts, such as those for real estate, for growth opportunities -- in this case, robotics.

BIG DEALS CONTINUE ACROSS AUTOMATION

Now, a summary of the quarter's biggest deals, according to funds committed.

As discussed above, China Evergrande's [announced](#) equity fund is big whether you look at the first installment, \$1.59 billion, or at the entire 10-year pledge. In one bite, the commitment would be the top robotics investment in the second quarter.

The No. 2 deal, in terms of capital committed, arrived in May, when executives with the SoftBank Vision Fund said [it was making](#) a placement of \$2.25 billion in GM's autonomous-vehicle unit, GM Cruise LLC (doing business as [Cruise Automation](#)).

GM itself will invest \$1.1 billion in GM Cruise upon closing of the transaction, for undisclosed reasons. We looked at these deals as one \$3.35 billion move.

TRANSACTIONS REPORT 2018 FIRST QUARTER

Bloomberg in April [reported](#) that two investors -- Schneider Electric SE and Temasek Holdings Pte. -- picked up the electrical and automation unit of Indian manufacturing and construction conglomerate Larsen & Toubro Ltd.

Suffering through India's long economic trough, Larsen is lightening its load. The unit fetched \$2.1 billion, including debt, making it the No. 3 transaction. Schneider will have a 74% stake. Temasek, Singapore sovereign wealth fund, gets the rest.



Electric car maker Faraday Future received billions in first-round funding.

Also mentioned above, China Evergrande's all-in \$2 billion [placement](#) in Faraday Future netted the investor a 45% stake in the U.S. electric-vehicle startup. It was the fourth-biggest investment of the quarter, and possibly the most unusually structured purchase of the year. Reuters does a good job of [separating the spaghetti](#). Suffice it to say that China Evergrande will lend money to its subsidiary, China Evergrande Health Industry Group Ltd.

On the heels of that deal was the [\\$1.9 billion placement](#) in April into the truck-

TRANSACTIONS REPORT 2018 FIRST QUARTER

hailing provider Full Truck Alliance Group, more often referred to as Manbang Group.

Investors included the SoftBank Vision Fund and CapitalG, Alphabet Inc.'s late-stage venture fund. The China Reform Fund, a private-equity firm owned by the Chinese government, also participated.

MANUFACTURING AND SUPPLY CHAIN DEALS

A \$1.4 billion investment by Alibaba Group Holding Ltd. and Cainiao Network was the quarter's No. 6 announced deal. Receiving the funding was Chinese express-courier ZTO Express Inc.

ZTO is the biggest deliverer in terms of market share in China. It is experimenting broadly with automation to squeeze every possible cent and second out of its portion of an enormous and chaotic supply-chain environment.

In June, Rockwell Automation said it would pay \$1 billion for 8.4% of PTC, which writes code to optimize the convergence of a manufacturer's physical and digital halves. Rockwell, maker of factory automation hardware, recognizes that it needs to bolster its software capabilities if it is to win more factory update contracts, particularly those requiring Internet of Things infrastructure.

Also in June, Toyota Motor Corp. made what Bloomberg called "the largest ever bet by an automaker in ride hailing." Toyota is investing \$1 billion in Grab Holdings Inc., which, like most ride-hailing firms, is working on autonomous vehicles.



3D Printing Startup Arevo Names New CEO, \$12.5M Funding Round

By Keith Shaw

Arevo Inc., a 3D printing startup that combines robotics, software, and specialized composite materials, in May announced a new CEO and \$12.5 million in Series B funding.

Jim Miller, named as the new CEO of the Santa Clara, Calif.-based company, worked previously at Amazon and Google. He will help move [Arevo](#) from the laboratory phase to full-scale commercialization, said founder Hemant Bheda, who remains the chairman of Arevo's board.

The funding round was led by Asahi Glass, with participation from Leslie Ventures, Khosla Ventures and Sumitomo Corporation of Americas.

A \$1T OPPORTUNITY FOR AREVO

Bheda said he sees a \$1 trillion opportunity to convert metal parts into composite materials, which has largely been unmet by the additive manufacturing, or [3D printing, market](#). High costs of making the parts, a lack

(above) A combination of a robotic arm, a turntable, and advanced software helps Arevo create stronger parts for manufacturing. And it's showing a 3D-printed bike to prove the technology.

TRANSACTIONS REPORT 2018 FIRST QUARTER

of scalability, and lack of software have prevented many companies from achieving this, he said.

“Our insight was that additive manufacturing with robotics has the potential to address all of these three things,” Bheda said. To achieve this, Arevo has produced a combination of software, a robotic arm, and a spinning plate that can create these composite materials in a true 3D manner.

“When we looked at the current 3D printing that has been applied for prototyping, the layers are deposited in a planar fashion on an X-Y plane,” Bheda said. “Our observation was that this gives rise to weakness in the Z direction, which needed to be addressed.”

For parts that require higher strength, such as composite materials, Bheda said it was limiting to print in the X-Y plane. So Arevo started work on how to print in three dimensions through software and the use of a robotic arm that was loaned to the company from ABB.

3D-PRINTED BICYCLE DEMO

To further demonstrate its capabilities, Arevo and Studio West announced the creation of “the world’s first true 3D-printed commuter bike,” which features a design that removes a seat stay between the seat and back wheel. This simplified design gives the bike more strength than conventional joined sections.

Bheda said Arevo’s process, which includes software optimization as well as 3D printing, could reduce the time for designing and producing a bike from 18 months to about 18 days. Bike shops could also more quickly create custom-sized bikes for their customers, he added.



Source: Arevo

Arevo’s bike is a demonstration of how 3D printing can produce stronger, simpler designs.

TRANSACTIONS REPORT 2018 FIRST QUARTER

The company's business model is to manufacture parts for clients that have a need for stronger composite materials, Bheda said.

He added the company has received interest from companies in the consumer products, aerospace, oil and gas, and consumer electronics space.

"We want to prove that we can deliver on the promise we're making, that we can make parts at scale," Bheda said. "For us to successfully address a trillion-dollar market with this technology, we have to prove that we can make 10,000 or 20,000 parts with this technology."

Vinod Khosla, one of the investors in Arevo, said the technology was a significant leap forward.

"Arevo is the company that can finally move 3D printing beyond novelty applications and into a mainstream manufacturing necessity," Khosla said in a statement announcing the funding.



Source: iStock

Through a mix of homegrown innovation, international partnerships, and industrial policy from Beijing, automation in China should continue to grow, note analysts.

China's Robot Market Likely to Continue Rising, Despite Trade Disputes

By Abishur Prakash

The world's largest manufacturer and second largest economy is making waves in robotics. From any angle — industrial strategy, emerging markets, or international partnerships — there are many opportunities for suppliers looking at China's robot market.

Trade tensions [with the U.S.](#) and concerns about Chinese investment [in European automation companies](#) notwithstanding, this East Asian dragon is working on a combination of interdependence and newly grown domestic capabilities.

INDUSTRIAL ROBOT GROWTH

This year, the Chinese robot market is projected to grow by 20%, with an estimated 80,000 industrial robots expected to be sold, [predict the International Federation of Robotics](#) (IFR) and [ABI Research](#).

TRANSACTIONS REPORT 2018 FIRST QUARTER

For some perspective, compare that with the 56,604 industrial robots sold in mainland China during the first 10 months of 2016 — 60% of which took place in the automotive and “3Cs” industries of computers, communications, and consumer electronics.

While a 20% growth is nothing to scoff at, there were concerns that “boom time” pace might have slowed. As [the South China Morning Post pointed out](#), experts believed that “industrial robot sales will continue to see flat growth.” In 2016, Chinese companies produced 30% more industrial robots than they did during the same time in 2015.

However, in 2017, a total of 141,000 industrial robots and unmanned vehicles were sold in China, [said GB Times](#), an increase of 58% from the year before.

Even if sales growth rates will be less dramatic than in recent years, projections expect the China robot market to benefit from continued increases in demand. Thanks to the passing of new laws intended to automate China’s supply chain, sales of industrial robots will double in 2018, [according to some estimates](#).

The IFR’s [World Robotics 2016](#) stated that China will be the world’s single largest user of robots, surpassing Europe and the U.S. On the production side, [Xinhua.net noted](#) that 1,686 China robot companies were created last year, for a total of more than 6,500.

By 2020, investing news firm [ValueWalk reports](#) that China wants to join the Top 10 grouping of nations when it comes to robot density, or number of robots per 10,000 human workers. The country reportedly wants to increase its robot density count from 36 to 150 per 10,000 workers.

EMERGING APPLICATIONS BOOST ROBOTICS IN CHINA

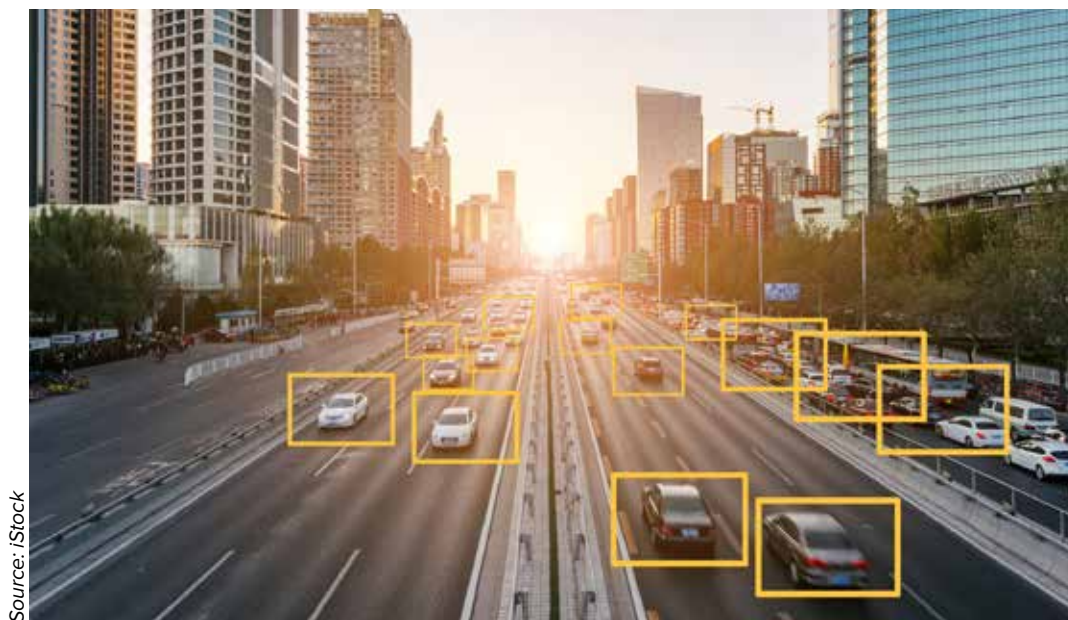
Until now, automation in China has been mainly limited to the factory floor. Now, it is being used in new ways.

TRANSACTIONS REPORT 2018 FIRST QUARTER

For example, Zhou Jiangong, chief executive for the China Business Network, [told the South China Morning Post](#) that artificial intelligence could write business news stories based on such macro-economic data as the consumer price index and gross domestic product figures.

Manufacturing demand and improving quality have led to the surprising 58% increase in robot sales, [said Xiaogang Song](#), president of the China Robot Industry Alliance, at the recent Automatica trade show.

In addition to the government's "Made in China 2025" strategy, investments are flowing to efforts for "Designed in China," [reported Wired](#). The country last year increased its research and development spending by 14% to \$279 billion, [said Wan Gang](#), science minister.



Source: iStock

China is developing robotics and AI for security and industrial uses.

Meanwhile, [The Times of India reported](#) China is using intelligent robots to "detect suspicious people and raise an alarm." These robotic custom agents are already in place southwest of Shanghai in Guangdong province. Law enforcement authorities are [turning to robots, artificial intelligence](#), and drones, raising concerns about civil liberties.

TRANSACTIONS REPORT 2018 FIRST QUARTER

More benevolent are AI applications such as [Biomind](#), which is intended to improve tumor diagnoses. Chinese companies are also working on [robots for hospitals](#) and retail.

Not all AI is an automatic success or competitive threat, however. For instance, [Baidu has struggled](#) with [its smart speaker](#), which was intended as a competitor to Amazon Alexa or Google Home.

Chinese Internet of Things company G7, logistics provider GLP, and [NIO Capital](#) are [working together on autonomous trucks](#). Intel's Mobileye unit is [working with](#) Baidu's Apollo consortium on self-driving passenger vehicles.

[Horizon Robotics](#) and other Chinese startups are working [to put 30 million self-driving cars](#) on Chinese roads within a decade, despite a [study by KPMG](#) that rated the country's preparedness for autonomous vehicles as "low."

In addition, Chinese companies are developing aerial drones to [deliver food](#) and [carry up to a ton of cargo](#). Speaking of drones, market leader DJI was [in talks to raise funds](#) against a valuation of \$15 billion, even as it [faces a backlash](#) from U.S. security users.

DOMESTIC, INTERNATIONAL INITIATIVES

The private sector is taking aggressive steps to lead the China robot market. For instance, China's Alibaba, Taiwan's Hon Hai Precision Industry (Foxconn), and Japan's Sharp [have partnered](#) to create a robotics alliance. Its objectives include the adoption of a new model for patents and the fueling of artificial intelligence innovations.

Similarly, Chinese internet providers [Alibaba, Baidu, and Tencent have become joint shareholders](#) in Foxconn Industrial Internet around its \$4.3 billion initial public offering. This has implications for industrial automation and IoT.

TRANSACTIONS REPORT 2018 FIRST QUARTER

Despite these international partnerships, China is also taking steps to stop importing robots and robotics parts and start producing them domestically.

Currently, in China, “key components” of a robot account for 70% of the total cost — and 80% of these components are imported, according to [a CCTV report](#).

In China, four out of five industrial robots are manufactured in foreign countries. Out of the 56,000 industrial robots sold in China in 2014 (25% of all sales globally), only 16,000 (30%) came from Chinese companies.

To boost domestic production of industrial robots, China launched a robotics patent pool. China has also [strengthened patent protections](#), both to respond to foreign criticism and to protect its own nascent industry.

Even as purchases in the [China robot market](#) slow down from past years, the reality is that [the appetite still exists](#). The nation’s ambitions are getting bigger as it sets long-term goals.

The focus of executives and policymakers should no longer be how China is comparing to the past, but what China’s plans are for the future.

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Cobalt Robotics	Sequoia, Founders Fund, Storm Ventures, Promus Ventures, Bloomberg Beta	13	investment	4/2/2018	Telepresence	security
Nintex	Thoma Bravo		M&A	4/2/2018	process automation	
Wind River	TPG		M&A	4/3/2018	IoT	industrial automation
DeepScale	Point72, Next47	15	investment	4/3/2018	AI	unmanned systems
North American Wave Engine Corp.	Abell Foundation, University System of Maryland Momentum Fund	1.45	investment	4/4/2018	drones	aerospace
Legit	Eniac Ventures	2.6	investment	4/4/2018	AI	development
6 River Systems Inc.	Menlo Ventures, Norwest Venture Partners, Eclipse Ventures, iRobot	25	investment	4/4/2018	cobots	supply chain
Coveo	Elliott Management, Evergreen Coast Capital	100	investment	4/4/2018	AI	supply chain
Tive Inc.		1.9	investment	4/4/2018	IoT, cloud	supply chain
WorkFusion	Hawk Equity, Declaration Partners	50	investment	4/5/2018	AI	
BBS Automation	EQT Mid Market Europe		investment	4/5/2018	industrial automation	manufacturing
Nemaska Lithium Inc.	SoftBank Group Corp.	77.7	investment	4/5/2018	batteries	manufacturing
Cogito		5	investment	4/6/2018	AI	healthcare
Armis	Red Dot Capital Partners	30	investment	4/9/2018	IoT	security
Comma.ai		5	investment	4/9/2018	self-driving cars	transportation
Endeavor Robotics, QinetiQ North America	U.S. Army	429.1	investment	4/9/2018	drones	security, military
SenseTime	Alibaba Group	600	investment	4/9/2018	AI	industrial automation
Visionsense	Medtronic	65	M&A	4/9/2018	surgical robot	healthcare
Efy-Tech	Aviation Industry Corporation of China	15.8	investment	4/9/2018	drones, software	unmanned systems
Franklin Robotics Inc.	Husqvarna Group	1	investment	4/10/2018	weeding robot	consumer
Houston Mechatronics	Transocean, Schlumberger	20	investment	4/10/2018	unmanned systems	energy
Karamba Security	Western Technology Investment	10	investment	4/10/2018	self-driving cars	security
Chinese Academy of Sciences	Evergrande Group	16000	investment	4/10/2018	R&D	agriculture, healthcare
RE2 Robotics	U.S. Air Force	2.9	government funding	4/10/2018	Military	
NDR Medical Technology	SGInnovate	61	investment	4/11/2018	AI	healthcare
Redbeard	British Robotics Seed Fund	185.34	investment	4/11/2018	software, drones	consumer
Genesis Advanced Technology	Koch Chemical Technology Group LLC		M&A	4/11/2018	engineering	manufacturing, healthcare

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Mazor Robotics	Dumont & Blake Investment	0.258	investment	4/11/2018	surgical	healthcare
Setpoint Systems	JR Automation	0	M&A	4/11/2018	automation	motion control systems
Punchh	Sapphire Ventures, Cervin Ventures	20	investment	4/12/2018	AI, machine learning	retail
DimensionalMechanics		1.25	investment	4/13/2018	AI	software
Reality Zero One	British Robotics Seed Fund	405.12	investment	4/13/2018	machine vision, IoT, VR	
Ares Robot	Face++	0	M&A	4/13/2018	mobile robots	logistics, warehouses
Silot Pte. Ltd.	Arbor Ventures, Eight Roads Ventures	2.87	investment	4/15/2018	AI	finance
ONDiGO	Gong.io		M&A	4/16/2018	AI	service
LawGeex	Aleph	12	investment	4/17/2018	AI	
Zimplistic	Credence Partners, EDBI	30	investment	4/17/2018	service	consumer
Tempo Automation	P72 Ventures, Lux Capital, Uncork Capital, AME, Industry Ventures, Dolby Ventures, Cendana	20	investment	4/17/2018	industrial automation	electronics
AcuityAds	Haywood Securities	3.63	investment	4/17/2018	AI	consumer
Appltools	OpenView	31	investment	4/17/2018	AI	consumer
Resolto Informatik GmbH	Festo	0	M&A	4/17/2018	AI	manufacturing
BeBop Sensors Inc.	Bullpen Capital	10	investment	4/18/2018	sensors, IoT	consumer
Medical Microinstruments SpA	Andera Partners, Panakes Partners, Fountain Healthcare	24.5	investment	4/18/2018	Surgical, microsurgery	health & medical
ReviveMed	Rivas Capital, TechU, Team Builder Ventures, WorldQuant Ventures	1.5	investment	4/18/2018	AI	health & medical
Citrine Informatics	Tencent Holdings, B&C Holdings	8	investment	4/18/2018	AI	materials, chemicals
Stadium Group PLC	TT Electronics PLC		M&A	4/18/2018	industrial automation	manufacturing
Z-Wave	Silicon Labs		M&A	4/18/2018	IoT	smart home
DroneSense	FLIR Systems	0	investment	4/18/2018	drones, software	unmanned systems
BenevolentAI	Woodford Investment Management	115	investment	4/19/2018	AI	health & medical
Solita	Apax Digital Fund		M&A	4/19/2018	AI	data services
Shapeways	Lux Capital, Union Square Ventures, INKEF Capital, Andreessen Horowitz	30	investment	4/19/2018	consumer	3D printing
Vicarious Surgical	Khosla Ventures, Innovation Endeavors	16.75	investment	4/19/2018	surgical, VR	healthcare
Voith Robotics	Voith, Franka Emika		M&A	4/19/2018	industrial automation	
Raytheon Co.	U.S. Navy	83	government funding	4/19/2018	unmanned systems	security

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Hangzhou C-SKY Microsystems Co.	Alibaba Group Holding		M&A	4/20/2018	IoT	manufacturing
Morf3D	Boeing HorizonX Ventures	0	investment	4/23/2018	manufacturing	3D printing
Glowforge	True Ventures, Foundry Group	10	investment	4/23/2018	consumer	3D printing
Formlabs	Tyche Partners, Shenzhen Capital Group, UpNorth Investment Limited	30	investment	4/23/2018	manufacturing, consumer	3D printing
Symbio Robotics		14.6	investment	4/23/2018	AI, industrial automation	Manufacturing
iGenius		7	investment	4/24/2018	AI, natural language	IoT
Marble	Tencent, Lemnos, Crunchfund, Maven	10	investment	4/24/2018	Delivery robots	logistics, delivery
Savari	Aviva Ventures, SAIC Capital, Flex	12	investment	4/24/2018	self-driving cars, V2X cellular	Transportation, unmanned systems
Veros Systems		4.3	investment	4/24/2018	AI	manufacturing
Manbang Group	SoftBank Vision Fund, China Reform Fund	1900	investment	4/24/2018	autonomous vehicles	logistics
Bunch	High-Tech Grunderfonds, Atlantic Labs		investment	4/24/2018	machine learning	staffing
Chromatic 3D Materials	DSM Venturing	0	investment	4/25/2018	3D printing, manufacturing	materials creator
Mobile Industrial Robots	Teradyne	148	M&A	4/25/2018	mobile robots	manufacturing, logistics
Emotix (RN Chidakkashi Technologies Pvt. Ltd.)	IDG Ventures India, YourNest	2	investment	4/25/2018	AI, robots	consumer
Ready Robotics	Drive Capital, Eniac Ventures, RRE Ventures	15	investment	4/25/2018	cobots, raas	manufacturing
Credit2B	Billtrust		M&A	4/25/2018	AI	finance
Allegro.AI	MizMaa Ventures, Robert Bosch Venture Capital, Samsung Catalyst Fund, Dynamic Loop Capital	11	investment	4/25/2018	AI	cars, security, medical
Segway Robotics		1.09	investment	4/26/2018	mobile platform	transportation
Bear Robotics	Woowa Brothers	2	investment	4/26/2018	mobile platforms	restaurants
Van Hoecke Automation	Burke Porter Group		M&A	4/26/2018	industrial automation	manufacturing
Magic AI	Vani Khosla	1.2	investment	4/27/2018	AI	agriculture
Optical Comb	Tokyo Institute of Technology Innovations and Future Creation fund	11.8	investment	4/27/2018	AI, industrial	manufacturing
Corindus Vascular Robotics	Millennium Management LLC	2.19	investment	4/28/2018	surgical	healthcare
	Baidu	500	investment	4/29/2018	AI	Internet
	The Hive	26.5	investment	4/30/2018	AI	
Minim	Flybridge Capital Partners, Founder Collective	2.5	investment	4/30/2018	Security, IoT	consumer devices

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Piab Group	Patricia Industries	795	M&A	4/30/2018	industrial automation	manufacturing
Genmark Automation	Nidec Sankyo	0	M&A	4/30/2018	semiconductors	
Embodied Inc.	Intel Corp., Osage Partners, Amazon.com Inc.	12.4	investment	4/30/2018	AI, social	healthcare
Suki / Robin AI (former name)	First Round Capital, Social Capital	15	investment	5/1/2018	AI	health/medical
Algolux	General Motors Ventures, Drive Capital, Intact Ventures, Real Ventures	10	investment	5/1/2018	vision, machine learning	autonomous vehicles
MindBridge	Real Ventures, Reciprocal Ventures, National Bank of Canada, 8VC	8.4	investment	5/1/2018	AI	Financial
Regulus Cyber	Sierra Ventures, Canaan Partners Israel, Technion, F2 Capital	6.3	investment	5/1/2018	security, autonomous cars	unmanned systems
Larsen & Toubro	Schneider Electric, Temasek Holdings	2100	M&A	5/1/2018	industrial automation	energy, manufacturing
Cadence Inc.	Kohlberg & Co.	0	M&A	5/1/2018	industrial automation	manufacturing, healthcare
TickTock		0	failure	5/1/2018	consumer	Robots
Accompany	Cisco Systems Inc.	270	M&A	5/1/2018	AI	sales
Sentenai	One Way Ventures	2	investment	5/1/2018	AI, data processing	IoT
Soft Robotics	Hyperplane Venture Capital, Scale Venture Partners, Calibrate Ventures, Honeywell Ventures, Tekfen Ventures, Yamaha Motor Co.	20	investment	5/2/2018	grippers, soft robots	manufacturing
AOSSCI	Panlin Capital	0	investment	5/2/2018	unmanned systems	aeronautics
Raven Telemetry	Fresh Founders, Jacket River, HBS Angel Investors	6.1	investment	5/2/2018	AI	manufacturing
Passage AI	Blumberg Capital	7.3	investment	5/2/2018	AI	communication interfaces
Synyi	GGV Capital	15.7	investment	5/2/2018	AI	health medical
Kewazo	MIG Verwaltungs AG	1.19	investment	5/2/2018	AI	construction
Acryl	LG Electronics	0.929	investment	5/2/2018	AI	finance
C2RO Cloud Robotics Inc.	Harbor Street Ventures	1.1	investment	5/2/2018	AI, cloud	industrial automation
Rapid Micro Biosystems	Bain Capital, Xeraya Capital, Asahi Kasei Medical	60	investment	5/2/2018	microbe detection	health medical
Ubtech	Tencent Ventures	820	investment	5/3/2018	consumer	consumer
Uditech	Legend Capital	0	investment	5/3/2018	Robotics	
Hesai Photonics	Lightspeed, Baidu	39	investment	5/3/2018	sensors, lasers	unmanned systems
SoundHound Inc.	Tencent Holdings Ltd., Daimler AG, Hyundai Motor Co., Midea Group, Orange SA	100	investment	5/3/2018	AI, voice	automotive, consumer
Penta Robotics	Times Group		M&A	5/4/2018	parallel robots	supply chain
Endeavor Robotics	U.S. Marine Corps	10	government funding	5/7/2018	Robots	military

TRANSACTIONS REPORT 2018 SECOND QUARTER

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Miovision	MacKinnon Bennett & Co., McRock Capital, BDC Capital, HarbourVest Partners	15	investment	5/7/2018	AI, smart city	traffic, smart cities
mPulse Mobile	SJF Ventures, HLM Venture Partners, EchoHealth Ventures, OCA Ventures, Bonfire Ventures	11	investment	5/7/2018	AI	healthcare
XNOR AI	Madrona Venture Group, NGP Capital, Autotech Ventures, Catalyst Ventures	12	investment	5/8/2018	AI, IoT	devices
Avaamo	Ericsson Ventures, Mahindra Partners, Wipro Ventures, WI Harper, Intel Capital	14.2	investment	5/8/2018	Conversational AI	enterprise, mobile
Yobe	Clique Capital Partners	1.8	investment	5/8/2018	AI, signal processing	robotics, voice UI, speech analytics
Fictiv	Sinovation Ventures, Accel, Intel Capital, Bill Gates, FJ Labs, Tandon Group, Stanford-StartX Fund	15	investment	5/8/2018	manufacturing software	manufacturing
Syntiant	Intel Capital, Seraph Group, Danhua Capital, Embark Ventures	0	investment	5/8/2018	AI, semiconductors	semiconductors
ThoughtSpot	Lightspeed Ventures, Future Fund, Khosla Ventures, General Catalyst, Sapphire Ventures	145	investment	5/8/2018	AI, analytics	enterprise
Resson	Mahindra & Mahindra	14	investment	5/8/2018	AI, predictive analytics	agriculture
Gamalon	Intel Capital, .406 Ventures, Omidyar Technology Ventures, Boston Seed Capital, Felicis Ventures, Rivas Capital	20	investment	5/8/2018	AI, natural language	enterprises
Syntekabio	Smilegate Investment, Korea Development Bank, Korea Fixed-Income Investment Advisory, The Yozma Group Korea, Altos Ventures	11.2	investment	5/8/2018	AI, drug discovery	health medical
Aibee	Adrian Cheng Chi-kong	15.7	investment	5/8/2018	AI, computer vision	retail
Ai.Reverie	Resolute Ventures, Vulcan Capital, Compound, Locke Mountain Ventures	0	investment	5/8/2018	AI, machine learning	
Bossa Nova Robotics	LG Electronics	3	investment	5/8/2018	mobile robot	retail
Drishti	Emergence Capital	10	investment	5/9/2018	AI	manufacturing
Sensor Networks	Sanari Capital, The ASISA ESD Fund, 4Di Capital	1.2	investment	5/9/2018	IoT, sensors	Insurance / financial
Reconova	Intel Capital	0	investment	5/9/2018	AI, facial recognition	security
Axiom Energy	GXP Investments, Shell Ventures, WorldQuant Ventures, SV Tech Ventures, Meson Capital	7.6	investment	5/9/2018	Industrial IoT	retail, cold storage
Betterview	Nationwide	0	investment	5/9/2018	AI, machine learning	
SensL Technologies Ltd.	ON Semiconductor Corp.		M&A	5/9/2018	sensors	transportation
QComp Technologies	OwnersEdge Inc.		M&A	5/10/2018	integrator	supply chain

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Unisound	China Electronics Health Fund, 360 Technology Co., Qianhai Wutong Mergers and Acquisition Funds, Hanfor Capital Management Ltd.	100	investment	5/11/2018	AI, IoT	manufacturing
Restoration Robotics	Solar Capital Ltd., Bridge Bank	20	investment	5/11/2018	surgical	healthcare
Autonomous Robotics Ltd.	Thalassa Holdings Ltd.	1.08	investment	5/11/2018	autonomous under-water vehicles	utilities
DeepSig	Scout Ventures	1.5	investment	5/11/2018	AI	telecom
Insights Robotics	Beyond Ventures, Linear Capital	9	investment	5/12/2018	big data	science
Alloy AI	Menlo Ventures, 8VC	12	investment	5/14/2018	AI	supply chain, ecommerce
Carousell	Rakuten Ventures, EDBI	85	investment	5/14/2018	AI	ecommerce
Qventus	Bessemer Venture Partners	30	investment	5/14/2018	AI	healthcare
Saildrone	Horizons Ventures, Capricorn Technology Impact Fund, Lux Capital, Social Capital, The Schmidt Family Foundation	60	investment	5/15/2018	unmanned systems	science
Metawave	Denso, Hyundai, Toyota	10	investment	5/15/2018	sensors, autonomous vehicles	transportation
Vesper	American Family Ventures, Accomplice, Amazon Alexa Fund, Baidu, Bose Ventures, Hyperplane, Sands Capital, Shure, Synaptics, ZZ Capital	23	investment	5/15/2018	sensors, microphones	robo dev, consumer
BrainQ	Qure Ventures, OurCrowd.com, Norma Investments, IT-Farm, Amir Gross	8.8	investment	5/15/2018	AI	healthcare
Motorleaf	Radicle Growth, Desjardins Capital, Real Ventures, Fluxunit, BDC Capital, 500 Startups Canada	2.85	investment	5/15/2018	AI	agriculture
ReWalk Robotics Ltd.	Timwell Corp.	5	investment	5/15/2018	exoskeleton	healthcare
LinkSquares Inc.		2.16	investment	5/15/2018	AI	legal
Trio AI	HanFor, China Minsheng Investment Group, Foxconn Technology Group, Xiamen Torch Group	17	investment	5/16/2018	AI	manufacturing, China
UCare AI	Great Eastern, Walden International, Peter Lim, WPGrowth Ventures	8.2	investment	5/16/2018	AI	healthcare
Primal	BDC	2.3	investment	5/16/2018	AI	
MassRobotics		0.55	investment	5/16/2018	nonprofit organization	
Arevo Labs	Asahi Glass, Leslie Ventures, Khosla Ventures, Sumitomo Corporation of Americas	12.5	investment	5/17/2018	3D printing	manufacturing, consumer
DigiLens	Continental	0	investment	5/17/2018	Augmented reality	transportation
mfine	Prime Venture Partners, Stellaris Venture Partners, Mayur Abhaya	4.2	investment	5/17/2018	AI	healthcare

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Roadstar AI	Wu Capital, Shenzhen Capital Group, Yunqi Partners, CMB International Capital, Vision Plus Capital	128	investment	5/17/2018	unmanned systems	automotive
Restoration Robotics	Granite Investment Partners LLC	0.464	investment	5/17/2018	surgical	healthcare
Aventics	Emerson	616	M&A	5/17/2018	components	manufacturing
J2 Innovations	Siemens	0	M&A	5/17/2018	IoT	building automation
Mavrx	Taranis	0	M&A	5/17/2018	unmanned systems	agriculture
OJO Labs	Realogy Holdings, Royal Bank of Canada, Northwestern Mutual Future Ventures, ServiceMaster, LiveOak Venture Partners, Silver-ton Partners	20.5	investment	5/18/2018	AI, conversational	real estate
CowaRobot	SoftBank China Venture Capital, China Creation Ventures	21.2	investment	5/18/2018	mobile robots	transportation
Dataminr Inc.		221	investment	5/18/2018	AI	government
Semantic Machines	Microsoft	0	M&A	5/20/2018	AI	conversational AI
Krund	China Merchants Securities Zhiyuan Capital	0	investment	5/21/2018	home robots	consumer
Orbbec	Ant Financial, SAIF Partners, R-Z Capital, Green Pine Capital Partners, Tianlangxing Capital	200	investment	5/21/2018	facial recognition, AI	China
Waterjet Robotics U.S.A.	Decathlon Capital Partners	0	investment	5/22/2018	coating removal	transportation
CleanRobotics	RiverRoad Waste Solutions	0	investment	5/22/2018	AI	recycling
Plus One Robotics Inc.	Schematic Ventures	2.35	investment	5/22/2018	machine vision	supply chain
Realeyes	Draper Esprit	16.2	investment	5/22/2018	AI, vision, emotion	robo dev, transportation
StoreDot	BP	20	investment	5/22/2018	battery	robo dev, manufacturing
Pensa Systems	ATX Seed Ventures, ZX Ventures, Mick Mountz, Yechiam Yemini	2.2	investment	5/22/2018	vision, perception, AI	retail
EKIM	Daphni, Partech	2.6	investment	5/22/2018	food robot	retail
eLichens	DEMETER, SOFIMAC Innovation, France Angels, Aereco, Fonds Ville de Demain, BNP Paribas Developpement	8.16	investment	5/22/2018	sensors	manufacturing, smart city
VanRiet Material Handling Systems	Material Handling Systems Inc.		M&A	5/22/2018	materials handling	supply chain
Owkin	GV (Google Ventures)	4.9	investment	5/23/2018	AI, health medical	health medical
First.IO	MATH Venture Partners, Nine Four Ventures, Thad Wong, Mike Golden	5	investment	5/23/2018	AI	real estate
Ultromics	Oxford Sciences Innovation, Neptune, RT Ventures, GT Healthcare, Tanarra, Fushia	13.4	investment	5/23/2018	AI	healthcare

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Superpedestrian	Charles Kim, Spark Capital, General Catalyst	16.5	investment	5/23/2018	e-bike sharing	Transportation
OM1	Polaris Partners, General Catalyst, 7wire Ventures	21	investment	5/23/2018	AI, healthcare	health/medical
Enlighted	Siemens Building Technologies Division	0	M&A	5/23/2018	sensors, IoT	smart buildings
Lobot Robot	Bellrobot	0	investment	5/24/2018	robots, china	
NOLO	BlueRun Ventures	10	investment	5/24/2018	AR/VR	consumer
Univer.AI	Shunya International	0	investment	5/25/2018	AI	
Chuangxin Qizhi Guangzhou	Sinovation Ventures	391	investment	5/25/2018	AI	
Xinktech	Fortune Capital, Co-Stone Capital	0	investment	5/25/2018		
Corindus Vascular Robotics Inc.	Louis A. Cannon	0.013	investment	5/25/2018	surgical	healthcare
ForwardX Robotics	CDH Fund, Eastern Bell Venture Capital	10	investment	5/29/2018	consumer, AI	consumer, transportation
Gravyty Technologies	NXT Ventures, Launchpad Venture Group, Stage 1 Ventures, The Venture Capital Fund of New England	2	investment	5/29/2018	AI	
ZTO Express	Alibaba, Caniao	1380	investment	5/29/2018		supply chain
Flock	Anthemis	3	investment	5/29/2018	drones	insurance
INTAMSYS	CWB Capital, Brizan Investments	0	investment	5/30/2018	3D printing	manufacturing
FLIR Systems	U.S. Army	2.6	government funding	5/30/2018	unmanned systems	military
SenseTime	Fidelity International, Hopu Capital, Silver Lake, Tiger Global	620	investment	5/31/2018	AI	smart cities, consumer, automobiles, finance, retail
Kneron	Horizons Ventures	18	investment	5/31/2018	AI	edge AI
GM Cruise Holdings LLC	SoftBank Vision Fund, General Motors Co.	3350	investment	5/31/2018	autonomous vehicles	transportation
Weights & Biases	Trinity Ventures, Bloomberg Beta	5	investment	5/31/2018	AI	enterprise tools
Ridecell	Cox Automotive, Initialized Capital, DENSO, Penske, Deutsche Bahn, Mitsui	28.61	investment	5/31/2018	autonomous vehicles	transportation
Robostar	LG Electronics	49.6	investment	5/31/2018	industrial automation	manufacturing
PlastiComp	PolyOne Corp.		M&A	6/1/2018	components	manufacturing
Shinko Sellbic Co.	Seiko Epson Corp.		M&A	6/1/2018	components	manufacturing
Transbotics Corp.	Scott Technology Ltd.		M&A	6/1/2018	autonomous vehicles	manufacturing
EcoRobotix	BASF Venture Capital, Business Angels Swiss, 4FO Ventures, Investiere, CapAgro	10.7	investment	6/1/2018	mobile robots	agriculture
Mazor Robotics	Cambridge Investment Research Advisors	1.1	investment	6/2/2018	hair robot	healthcare

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
AutonomouStuff	Hexagon		M&A	6/2/2018	unmanned systems	transportation
Quantum Surgical	Ally Bridge Group	50	investment	6/3/2018	surgical	healthcare
Boxbot	Toyota AI Ventures, Artiman Ventures	7.5	investment	6/4/2018	autonomous vehicles	supply chain
CMR Surgical Ltd.	Zhejiang Silk Road, Escala Capital Investments, LGT, Cambridge Innovation Capital, Watium	100	investment	6/4/2018	surgical	healthcare
Verity Studios AG	Fontinalis Partners	18	investment	6/5/2018	drones	entertainment
NextInput	FLC Global, Sierra Ventures, Cota Capital, UMC Capital	13	investment	6/5/2018	sensors	manufacturing
Hailo	OurCrowd, Maniv Mobility, Next Gear	12	investment	6/5/2018	AI, embedded chips	manufacturing
nference	Matrix Partners, Matrix Capital Management	11	investment	6/6/2018	AI	healthcare
Chewrobot	Zongton Capital, Leaguer Venture Capital, Boyaa Interactive	0	investment	6/6/2018	robot, consumer	consumer
SensorUp	Vanedge Capital	2	investment	6/6/2018	IoT	smart cities, field service
Kittyhawk	Bonfire Ventures, Boeing HorizonX Ventures, Freestyle Capital, Kluz Ventures	5	investment	6/6/2018	unmanned systems	enterprise drones
Insitu	U.S. Coast Guard	117	government funding	6/6/2018	unmanned systems	military
BIOMODEX	Idinvest Partners, InnovAllianz	15	investment	6/7/2018	3D printing organs	healthcare
Guizhou Province		470	government funding	6/7/2018	big data, AI	China
Zebra Medical Vision	aMoon Ventures, Khosla Ventures, NVIDIA, Marc Benioff, Richard Socher, Fei Fei Lee, OurCrowd, Dolby Ventures, Aurum, Johnson & Johnson Innovation JJDC, Intermountain Healthcare	30	investment	6/7/2018	AI	healthcare
Starship Technologies	Matrix Partners, Morpheus Ventures, Nathan Blecharczyk, Jaan Tallinn	25	investment	6/7/2018	mobile robots	supply chain
Omnibotic	Element AI, Real Ventures, Alexandre Taillefer, Genik	1	investment	6/7/2018	industrial automation	manufacturing
Six3 Advanced Systems	U.S. Navy	48.63	government funding	6/7/2018	unmanned systems	military
Robotic Research LLC	U.S. Army	49.7	government funding	6/7/2018	unmanned systems	military
CUES	SPX Corp.	189	M&A	6/7/2018	pipeline inspection	energy
Esys Automation	JR Automation		M&A	6/8/2018	industrial automation	manufacturing, automotive
XACT Robotics		5	investment	6/10/2018	surgical	healthcare
OnRobot	OptoForce, Perception Robotics, On Robot, Danish Growth Fund		M&A	6/11/2018	cobots	manufacturing

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Lockheed Martin		200	investment	6/11/2018	unmanned systems, AI, sensors	aerospace, military
Eigen Technologies	Goldman Sachs Principal Strategic Investments, Temasek	17.39	investment	6/11/2018	AI	legal, finance
BYTON	FAW Group, Tus-Holdings, CATL	500	investment	6/11/2018	electric cars	automotive
Caresyntax	Norgine Ventures, surgica.AI	31.9	investment	6/11/2018	AI, surgical	healthcare
PTC	Rockwell Automation	1000	investment	6/11/2018	manufacturing	smart factories
Carter Control Systems	Lummus Corp.	0	M&A	6/11/2018	materials handling	supply chain
RPI, Clemson University, Lockheed Martin, United Technologies Research Center	ARM Institute	6.8	investment	6/12/2018	manufacturing	research
Andrew Alliance Inc.	Tecan Group, Waters Corp., Inpeco, Rancillo Cube, Sam Eletr Trust, Omega Funds	14	investment	6/12/2018	materials handling	healthcare
Exotec Solutions	Iris Captial, 360 Capital Partners, Breega	20.06	investment	6/12/2018	supply chain	ecommerce, groceries
Yitu Technology	ICBC International Holdings, SPDB International, Gaocheng Capital	200	investment	6/12/2018	AI, machine vision	healthcare, security, smart cities
Broncus Medical	Intuitive Surgical	15	investment	6/12/2018	healthcare, surgical	health & Medical
Aware Information Technology	Hyperspace Capital	0	investment	6/12/2018	AI	
IOTech	Dell Technologies Capital, Innovate UK	2.5	investment	6/12/2018	Industrial IoT	manufacturing
RedZone Robotics	Milestone Partners		M&A	6/13/2018	industrial automation	infrastructure
Grab	Toyota	1000	investment	6/13/2018	unmanned systems	transportation
CyPhy Works		4.5	investment	6/13/2018	drones	security
Aquabotix	U.S. Navy	0	government funding	6/13/2018	unmanned systems	military
Samsung NEXT			investment	6/13/2018	AI	
Pick-it	Urbain Vandeuren, PMV	2.94	investment	6/13/2018	vision, cobots	manufacturing
Chowbotics	Foundry Group, Techstars	11	investment	6/14/2018	robot	food and beverage
Sphero		20	investment	6/14/2018	robots	consumer
Medrobotics Corp.	Western Technology Investment	25	investment	6/14/2018	surgical	healthcare
Smart Ag	Stine Seed Farm	5	investment	6/14/2018	unmanned systems	agriculture
Small Robot Co.	Ashfords	1.33	investment	6/15/2018	autonomous vehicles	agriculture
Embodied	Calibrate Ventures, Jazz Venture Partners, Osage University Partners, Intel Capital, Grishin Robotics	22	investment	06/18/2018	companion robots, AI	healthcare
RideOS	Sequoia Capital, Graph Ventures, SV Angel	9	investment	6/18/2018	self-driving cars	transportation

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
FFT GmbH	Fosun International Ltd.		M&A	6/19/2018	industrial automation	manufacturing
Falkonry	Presidio Ventures, Fortive Corporation, Basis Set Ventures, Polaris Partners, Start Smart Labs, Zetta Venture Partners	4.6	investment	06/19/2018	AI, machine learning	enterprise
Inspirit IoT	Senscape Technologies	0	investment	06/19/2018	IoT	enterprise
Invert Robotics	Powerhouse Ventures	1	investment	6/19/2018	climbing robots	infrastructure
General Atomics Aeronautical Systems	U.S. Marine Corps	39.57	government funding	6/19/2018	unmanned systems	military
CybAero			failure	6/19/2018	unmanned systems	military
Immuta	DFJ Growth	20	investment	6/20/2018	AI	enterprise
Bonsai	Microsoft		M&A	6/20/2018	AI, machine learning	industrial automation
Cambricon Technologies Corp.	SDIC Venture Capital		investment	6/20/2018	AI	manufacturing
Kraken Robotics Inc.	Ocean Infinity Ltd.	2.3	investment	6/20/2018	unmanned systems	exploration
Grabit	Burke Porter Group		investment	6/20/2018	industrial automation	manufacturing
August Robotics	Blackbird Ventures	5	investment	6/20/2018	service	construction
Metron Inc.	U.S. Navy	8	government funding	6/20/2018	unmanned systems	military
Bossa Nova Robotics	Cota Capital, Intel Capital, Lucas Venture Group, WRV Capital, LG Electronics, China Walden Ventures	29	investment	6/21/2018	mobile robots, AI	retail
Roambee	MDI Ventures	2	investment	06/21/2018	IoT, sensors	supply chain
Silexica	EQT Ventures Fund	18	investment	6/21/2018	unmanned systems	transportation
Chasing Innovation	Shenzhen Capital Group	3	investment	6/21/2018	unmanned systems	marine
TransparINT	Steele Compliance Solutions	0	M&A	6/25/2018	AI	financial
Faraday Future	Season Smart Limited	2,000	investment	6/25/2018	unmanned systems	transportation
Noodle.AI	Dell Technologies Capital	35	investment	6/26/2018	AI	enterprise
Matternet	Boeing HorizonX Ventures	16	investment	6/26/2018	unmanned systems	logistics
DroneDeploy	Invenergy Future Fund	25	investment	6/26/2018	unmanned systems	agriculture, energy, construction
WaterBit	New Enterprise Associates	11.4	investment	6/26/2018	IoT	agriculture
Raytheon	U.S. Department of Defense	29.69	government funding	6/26/2018	unmanned systems	military
Specdrums	Sphero	0	M&A	6/26/2018	consumer, education	education, IoT
Lyft	Fidelity Management & Research, Senator Investment Group LP	600	investment	6/27/2018	unmanned systems	transportation
Oshkosh Defense	U.S. Army	49	government funding	6/27/2018	unmanned systems	military
Dobot	Green Pine Capital Partners	15	investment	6/28/2018	robot arm	manufacturing
CurveRobot	iVision Ventures, Yuanwang Capital	0	investment	6/28/2018	door, window painting	construction

TRANSACTIONS REPORT 2018 SECOND QUARTER

Robotics Transactions, Q2 2018

Company	Investor, partner, acquirer	Amount (millions \$)	Transaction Type	Date	Technology/software?	Industry
Ceres Imaging	Insight Venture Partners, Romulus Capital	25	investment	6/28/2018	AI, imaging	agriculture
Re'flect	Basf Venture Capital	4.4	investment	06/28/2018	Augmented reality	enterprise
Savioke	Brain Corp	13.4	investment	6/28/2018	Service, hospital, AI	hospitals, hotels
Antil	Bystronic	0	M&A	6/28/2018	robotics, automation	manufacturing
Trax	Boyu Capital, DC Thomson	125	investment	6/29/2018	IoT, computer vision	retail
Turing Robot	Qianhai Wutong Mergers and Acquisition Funds, Zoy Capital	0	investment	6/29/2018	AI	consumer, education
Odico			IPO	6/29/2018	robotics	construction