

		- Million and
	ntagon Nerds !	ктѕм-тv
		KVIA-TV
To Win the Next War, the Pentagon Needs Nerds. Data scientists, coders, and other techies could prove decisive in future conflicts —if Uncle Sam can		KRWG-TV
recruit them		KBNA-AM/FM & KAMA-AM
WHEN RUSSIA INVADED <u>Ukraine</u> , the US Department of Defense	Russia might be less of a technologi- cal threat, but China has emerged as	KHEY-AM/FM, KPRR-FM & KTSM-AM/FM
turned to a team of <u>machine learn-</u> ing and <u>artificial intelligence</u> experts	a formidable new near-peer rival. "We know that by the Chinese	KLAQ-FM, KISS-FM & KROD-AM
information about the conflict. "We have surged data scientists forward,"	that they're looking very much to advance on the Al front," Hicks says.	KPAS-FM- ALGIE A. FELDER CSBE
Deputy Secretary of De- fense <u>Kathleen Hicks</u> told WIRED in	During the ongoing conflict in Ukraine, Al algorithms have been	KINT98.COM INTERNET RADIO NETWORK
a recent interview. These tech experts crafted code and machine learning algorithms, creating systems	Russian radio chatter, and to identify Russian individuals in videos posted	BURST COMMUNICATIONS INC KIRK BASEFSKY
that are "especially valuable for synthesizing the complex logistics	on social media, using facial recognition tech. <u>Low-cost</u>	JOHN LACKNESS
picture," she said.	drones that use off-the-shelf algorithms to sense and navigate are	ENTRAVISION COMMUNICATIONS
Due to the sensitive nature of operations in Ukraine, Hicks says she	also proving a potent new weapon	SCMS, INC
cannot provide details of what the data team has done. But Hicks says	and strategies. An <u>unprecedented</u> hacking campaign against	ABS ADVANCED BROADCAST SERVICES, LLC
others have been making within the	<u>Russia</u> shows how cybersecurity skills have become a potent weapon	KSCE-TV
Pentagon for some time—that	against a nation-state adversary. New	RF Specialties of Texas
the nature of war, and the US needs	weapons can now be developed at breakneck speed, too, as was shown	KCOS-TV
"I like to say that bits can be as	had developed a custom	KELP-AM ARNOLD McClatchy.
reference to the importance of	drone specifically for use by Ukrain- ian forces. By contrast, the US Air	MARSAND, INC.
It isn't only that technology is advanc-	Force's latest fighter jet, the F-35, has been in development for over 20	Ho Tah Say. LLC
ing more rapidly and in different ways;	the seen in development of over 20	

the US also faces fresh international competition in emerging areas like AI. years, at an estimated lifetime cost of \$1.6 trillion.





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Although the US is helping Ukraine punch above its weight by providing financial aid, conventional weapons, and new technologies, there are those—inside and outside of the Pentagon—who worry that the US is ill-equipped to adapt to the challenges presented by war in the future.

"Every large company has the same problem," says Preston Dunlap, who resigned last week as chief architect of the Department of the Air Force, a role that involved modernizing technology development and acquisition. Dunlap compares the situation to the way big successful businesses can be disrupted by technological change and more nimble competitors, a phenomenon that the business school profesor Clayton Christensen called "the innovator's dilemma." Dunlap penned an open resignation letter in which he recommended steps that the Department of Defense should take to embrace a more rapid, experimental, and technology-focused culture. He savs just like a business faced with technological disruption and more nimble competitors, the US military struggles to change direction because it encompasses so many people, systems, and ingrained ways of doing things. He suggests that advocates for change, such as Hicks, can only do so much. "I am concerned about operators having to go into some kind of contingency [conflict] without the available technology," he says. "That's just not a place I want us to be."

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WEB SITE COMMITTEE: Norbert Miles

SUSTAINING MEMBERSHIP: Antonio Castro

PROGRAM CHAIRMAN: Warren Reeves

> NEWSLETTER: Antonio Castro

EAS CHAIRMAN: David Halperin

EXECUTIVE COMMITTEE: Antonio Castro Bruno Cruz Walter Hanthorn



DATE 4/12/2022

LOCATION: ZOOM (Antonio's)

MEETING CALLED TO ORDER: 11:05 AM, BY ANTONIO CASTRO. THERE WERE ONLY 6 (SIX) ATTENDANTS

REPORT OF THE SECRETARY: MINUTES IN THE APRIL NEWSLET-TER. ACCEPTED BY NORBERT MILES, SECONDED BY WARREN REEVES

REPORT OF THE TREASURER: \$ 5,544.02 IN THE BANK , ACCEPTED BY WARREN REEVES, SECONDED BY GLENN LEFFLER.

REPORT OF THE CERTIFICATION COMMITTEE: NO REPORT

REPORT OF THE MEMBERSHIP COMMITTEE: DAVID GRICE OFFER TO HAVE HIS ALAMOGORDO RADIO STATIONS GROUP AS SUSTAINING MEMBER. WILL SEND HIM THE PAPERWORK.

REPORT OF THE FREQUENCY COORDINATOR COMMITTEE: WARREN RECEIVED CERTIFICATION FROM "DISHNETWORK" FOR SOME FREQUENCIES. TO BE REVIEWED.

REPORT OF THE SCHOLARSHIP COMMITTEE: RICK VILARDELL RECEIVED ONE STUDENT APPLICATION. AND THERE IS ONE MORE TO COME..BOTH WILL BE IN CONSIDERATION.

REPORT OF THE WEBSITE COMMITTEE: NOW 3630 VS. 3572 EQUAL 42 HITS. LOOKING GOOD.

REPORT OF THE EAS CHAIRMAN: TEXAS AND NEW MEXICO MONTHLY TESTS WERE FINE.

REPORT OF THE PROGRAM COMMITTEE: BE AWARE THAT IN MAY 10, A ROAD SHOW FROM "OCON" WILL COME TO EL PASO.

NEW BUSINESS OR ANY ITEMS FOR THE CHAPTER INTEREST: .MEMBERS ASK TO HAVE AN UPDATE IN THE KFOX TRAM SITUA-TION. WHAT'S NEW?

OTHER CHAPTER ENGINEER OF THE YEAR 2022 ELECTIONS TO START NOW

NEXT MEETING DATE AND LOCATION: MAY 10, TIME AND PLACE TO BE DETERMINED.

HERE IS THE NAME OF THE ELECTED 2022 CHAPTER 38 ENGINEER OF THE YEAR: [---.][.-..][.][--.][--.] [.--..][.][.-..][.-..][.][.-..] CONGRATULATIONS !!





KSCE 38

BRAD DUBOW GENERAL MANAGER

4180 N.Mesa El Paso, Tx 79912 (915) 544-9550

FOR LAST MONTH OF APRIL, WE DID NOT HAVE A PRESENTATION , JUST THE REEGULAR CHAPTER MONTHLY MEETING

NOW, FOR THIS MAY MONTH WE ARE GOING TO MEET AT THE KVIA TV PARKING LOT THAT WE WILL SHARE WITH THE "NBT TOUR"

KFOX AND CH-38 WILL PROVIDE DRINKS, PIZZA AND TREATS FOR EVERYBODY UNDER THE AWNING OF THE CASTRO'S RV.

THIS IS THE EVENT THAT WE WERE WAITING THE YEAR LONG !!.

YOU ASKED FOR "PERSON-TO-PERSON" MEETING, AND THIS IS IT !

WHEN: MAY 10, 2022

WHERE: KVIA TV PARKING LOT

TIME: FROM 11 AM TO 2 PM



⁵ A <u>2019 report</u> commissioned by the <u>Defense Innovation Board</u>, which provides the secretary of defense and deputy secretary of defense with recommendations around technology adoption, warns that software and its development has become a crucial strategic issue for the US military. The board also notes that the DOD cannot typically compete with the salaries tech companies offer software developers.

The DOD has taken numerous steps to boost its technological chops, with a particular focus on AI. In August 2015, the department set up the Defense Innovation Unit, which is tasked with coordinating AI across different areas of the military. The latest move, on April 25, saw the Pentagon announce its first chief digital and artificial intelligence officer, Craig Martell, previously head of machine learning at Lyft. Martell was appointed by Hicks to help advance adoption and use of the technology.

There is some debate around how many software engineers and data scientists the DOD actually needs to hire itself, and how much of the work it can outsource. Job ads highlight the defense world's shift toward a software-centric outlook. <u>Emsi</u>, a company that tracks job listings, says 33 percent of 370,000 defense industry job advertisements it analyzed mention software development or data science skills, a figure that has grown 91 percent since 2017.

There are many ways AI and other technology could benefit the US military besides aiding with intelligence gathering and analysis or making weapons smarter. Small trials have shown that the technology can help <u>manage logistics</u>, <u>predict when machinery will fail</u>, and <u>improve veteran care</u>.

But the <u>National Security Commission on Artificial Intelligence</u>, a Pentagon initiative to assess the changing technology landscape, has warned that the US needs to invest more in new technologies and <u>work more closely with the private sector</u> to avoid being blindsided by China.

Given the scarcity of in-house talent, the Pentagon has turned to the private sector for help. But attempts to increase technological resources by working closely with Silicon Valley have been fraught. Project Maven, an Air Force initiative to collaborate with tech firms, sparked controversy in 2019 when <u>Google employees protested</u> the company's decision to develop technology for analyzing aerial imagery. Workers at Microsoft <u>staged protests</u> over that company's military contracts the same year. The Pentagon <u>continues to work with some Silicon Valley firms</u>, but it is still likely to see pushback from some tech workers over high-profile military projects.

<u>Will Roper</u> oversaw procurement for the Air Force between 2018 and 2021 and led the development of groundbreaking experiments involving <u>the rapid deployment of AI in military</u> <u>aircraft</u> using agile software methods borrowed from the tech world. He says that until the DOD is able to draw on more technical expertise, perhaps by getting technical experts to volunteer their time, "we're probably not going to see the technology lined up in the military with where it is in the private sector." "Why are we still dead in the water when it comes to talent?" he says. Some experts say the DOD has to reinvent existing relationships with the private sector. They argue that awarding multibillion-dollar contracts to companies like Lockheed Martin, Raytheon Technologies, or Northrop Grumman to develop technology over many years is hardly conducive to fast-paced innovation.

Chris Brose is chief strategy officer for <u>Anduril</u>, a company <u>working on a range of defense</u> <u>systems</u> incorporating technologies that have emerged in Silicon Valley, such as virtual reality and AI. Brose says new technologies need to be developed and iterated on more rapidly. Anduril, which was cofounded by the virtual reality pioneer Palmer Luckey, is one of several new defense companies hoping to disrupt the existing order by doing things differently. "When you strip away all of the opacity and the complexity and the jargon, this is a very simple story of disruption," says Brose.