Using AI & Gamified Learning to Prepare Your Cyber Team

CIRCADENCE

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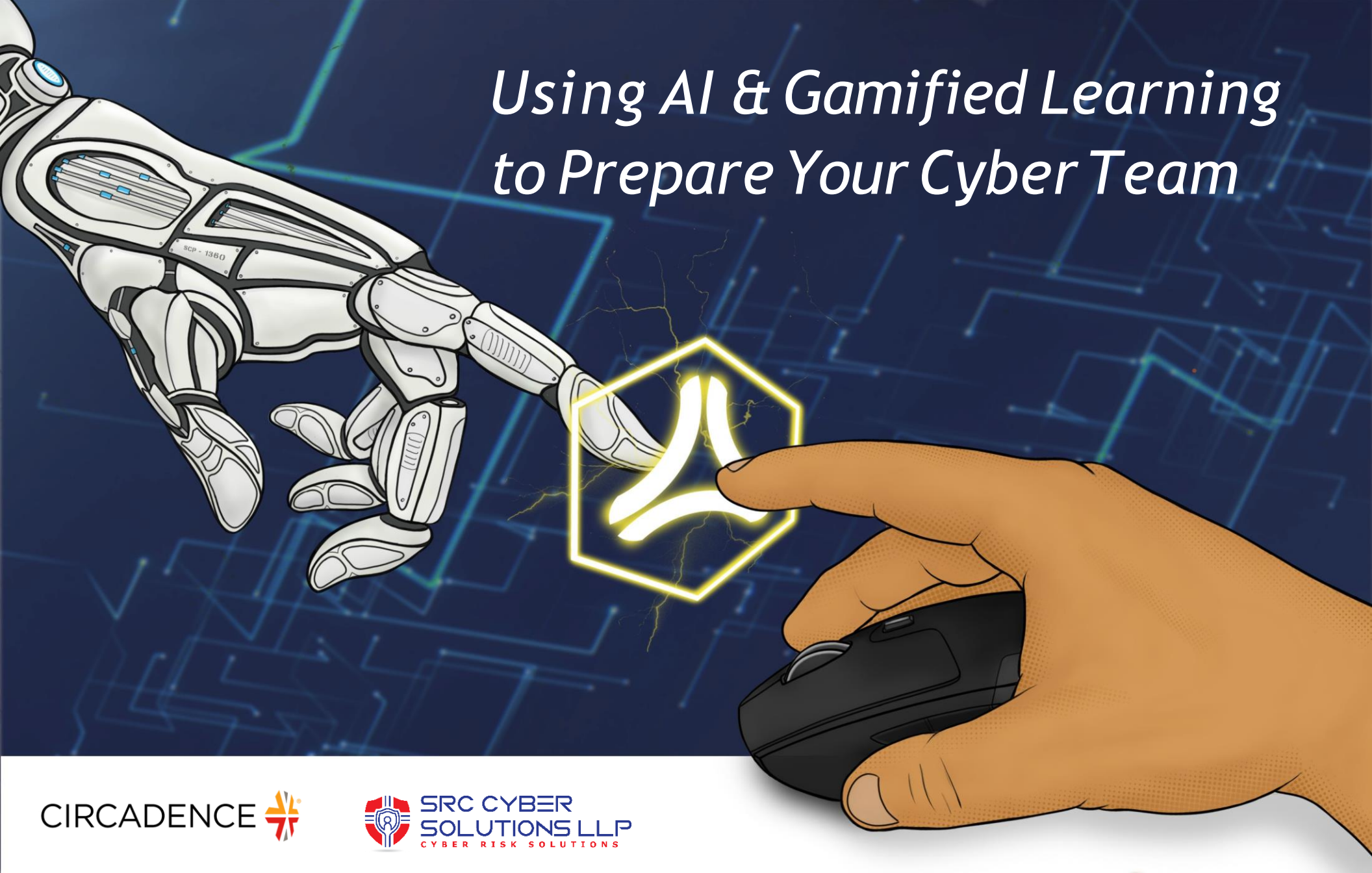
Our Goal:

Circadence is dedicated to helping security professionals build the skills they need to combat today's threats and ensure organizational readiness.
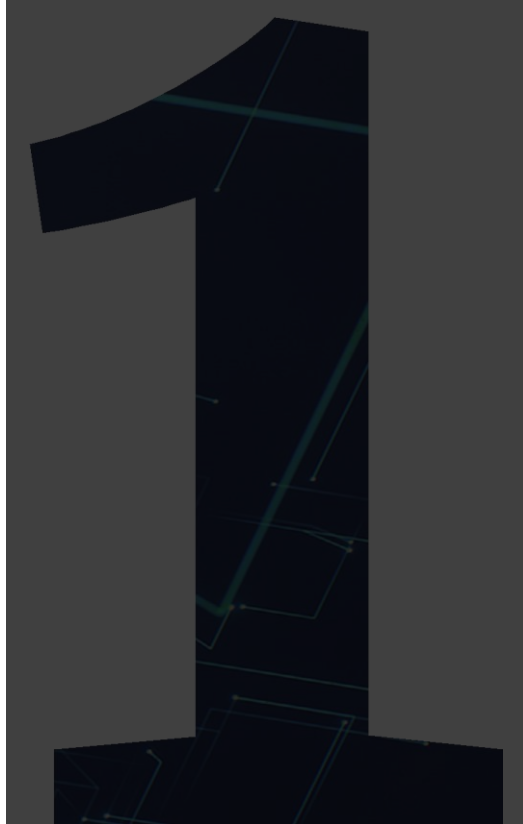
This E-Book Will Cover:

1

Why a new approach to cyber learning is needed to improve cyber defense

2

How gamified learning enables teams to better address imminent threats

3

How AI automates and augments the cyber workforce

Chapter 1: A New Approach is Needed

The cyber security industry is in desperate need of new approaches to keep pace with the speed of threats. The growing **cyber skills gap**, low staff retention, and tight budgets stack the cards against cyber security professionals and industry leaders who work hard to implement the strategies that aim to prevent attacks on their organization.
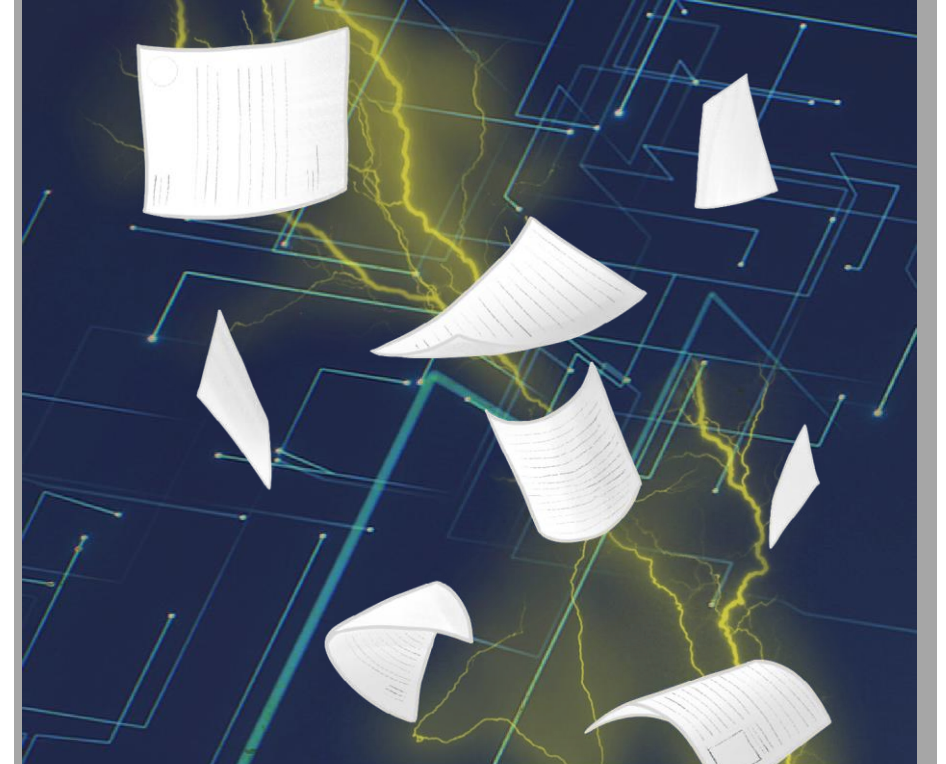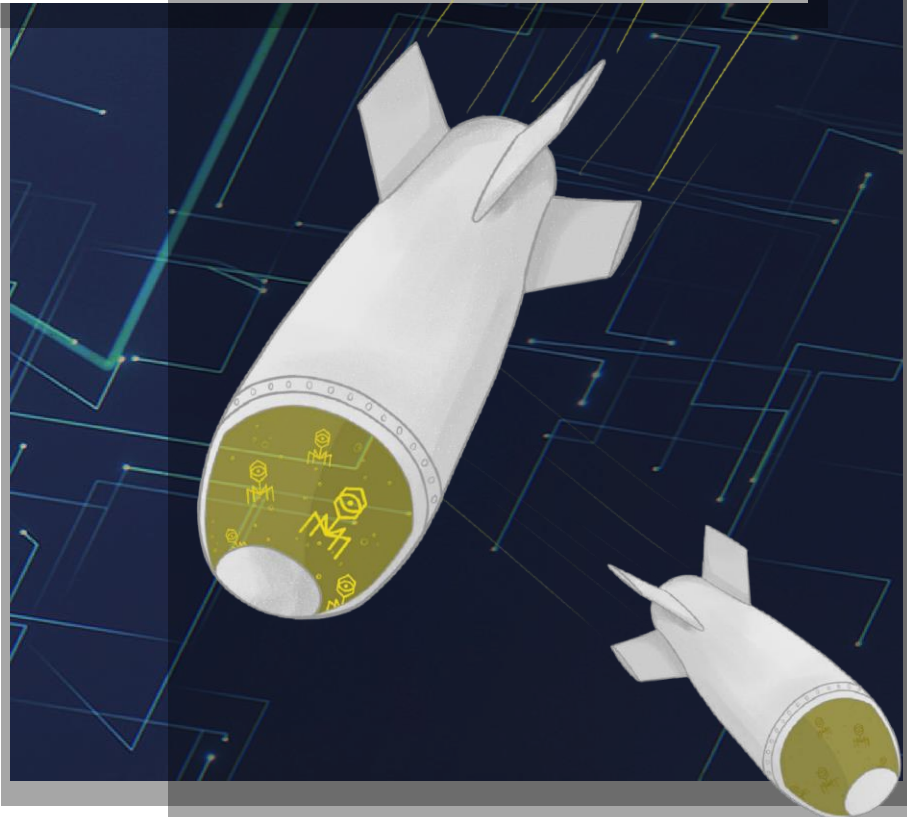
Businesses struggle to keep up

Cyber security won't be considered an "add on" anymore as people are already starting to realize the impacts of an attack on all aspects of a business, from the cyber department to the administration.

– Keenan Skelly, VP of Global Partnerships and Security Evangelist at Circadence
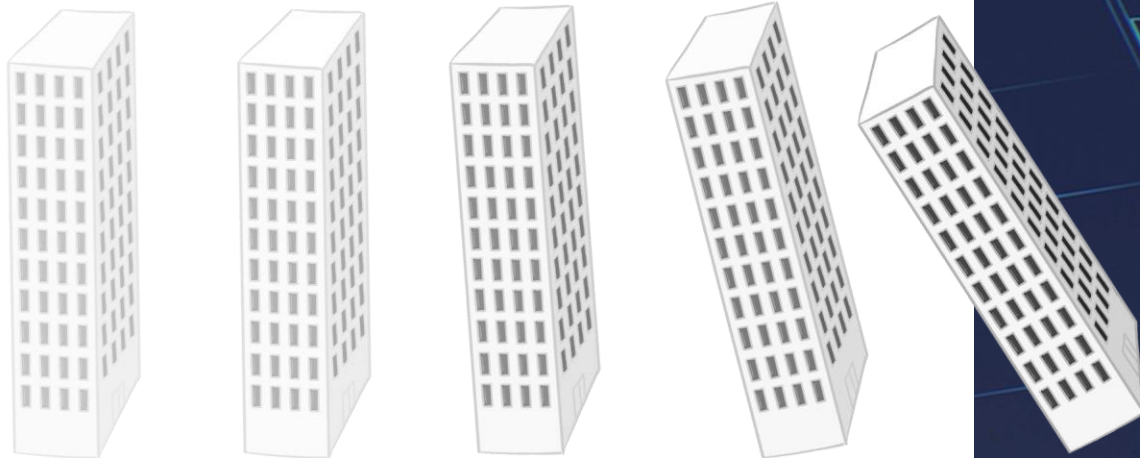
The average company handles a bombardment of 200,000 security events per day.

Harvard Business Review

780,000 records lost to hacking

McAfee

80 billion + malicious scams are conducted every day

[McAfee](#)

Hello I am very rich prince

My money is locked up by the bank and I need your help to get it out of Nigeria.

I can give you one million dollars for your help.

Sure Bro, what do you need?

64% of companies experienced one or more successful attacks that compromised data and/or IT infrastructure

[Ponemon Institute](#)

Chapter 2: AI Can Rescue Your Cyber Team

If you have a weary cyber team, AI could be your solution. Automating and augmenting parts of your cyber team tasks can help strengthen your security readiness efforts.

A new way to address security readiness lies within the power of artificial intelligence. Many companies are finding that a hybrid approach is the most successful, where everything that can be automated with AI is, and the rest relies on human intelligence. This ensures that cyber teams don't burn out as easily and are able to focus on more high-level attributes of security.
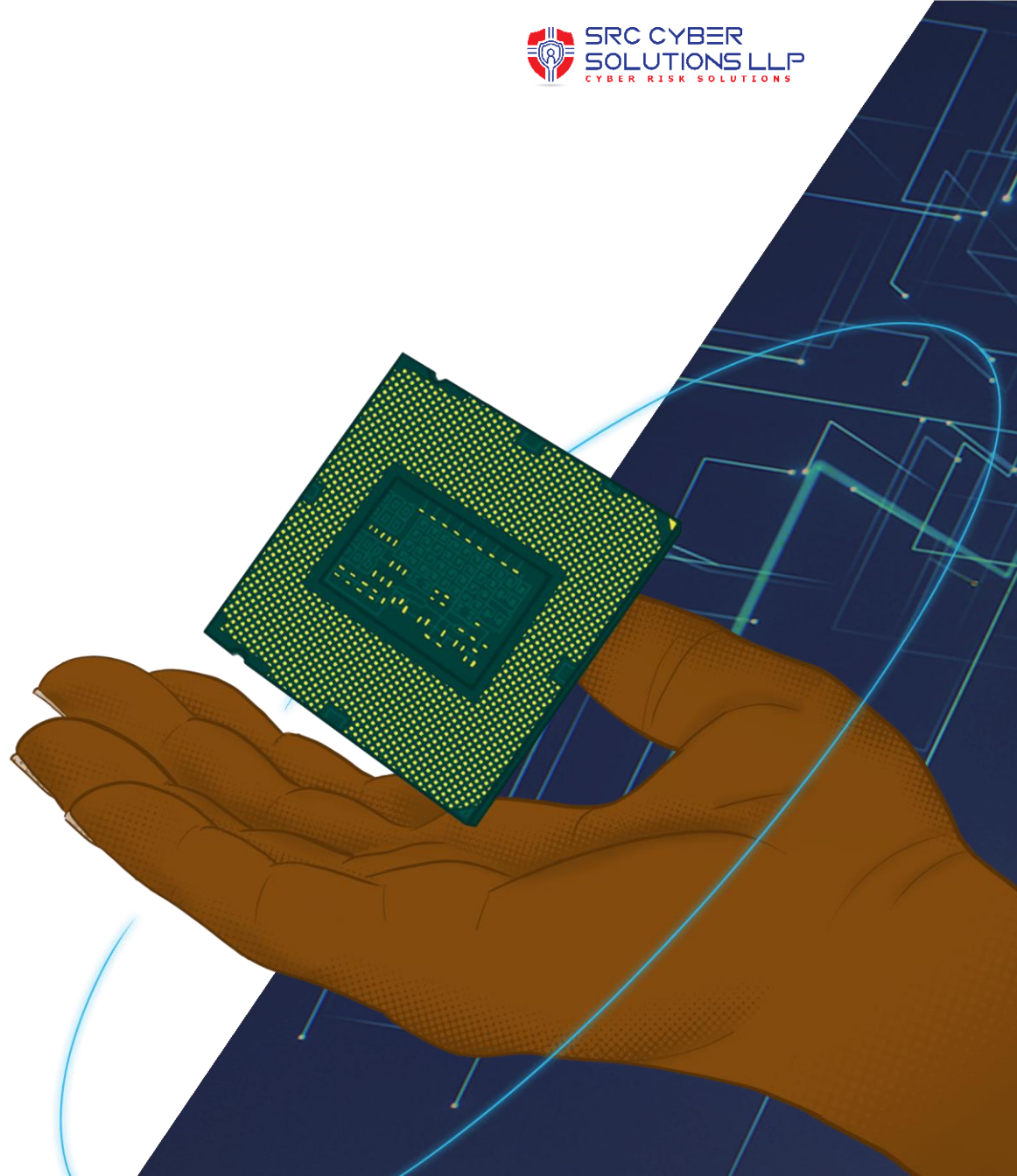
Project Ares: AI-Powered Cyber Learning

Circadence's cyber security learning platform, Project Ares utilizes AI for a variety of factors such as in game communication, creating the adversary in mission exercises, and developing real-world scenarios for users tolearn from.

The more cyber security professionals engage with the Project Ares platform, its AI capabilities and its curriculum, the better information data scientists have to draw on when identifying new ways to prevent today's cyber attacks.

Chapter 3: Gamified Learning Can Prepare Your Cyber Team

Learning models used in classrooms are passive and cannot convey pertinent information to learners at the rate and pace they need to adjust their skills. As threats are ever evolving and business risk is ever escalating, learning to adapt to new threats must be ever on-going.
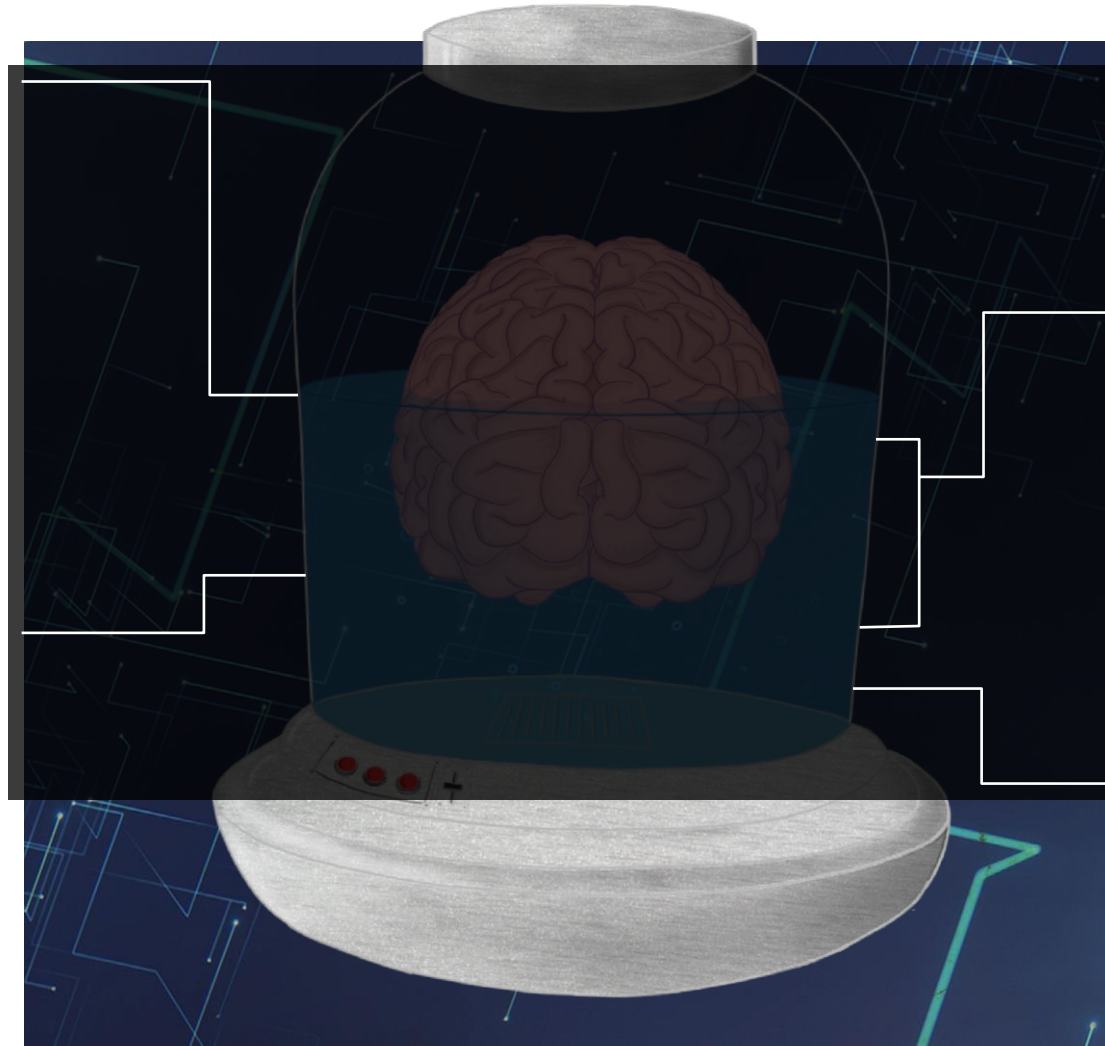
Studies show people forget:

40%
after 20 minutes

50% -to- **80%**
after 1 day

77%
after 6 days

90%
after 1 month

What is Gamified Learning?

Unlike compliance-driven teaching methods, [gamified teaching](#) engages practitioners individually and in teams, through modern learning strategies. It works by enabling learners to apply what they know to simulated environments or "worlds," creating a natural flow that keeps learners engaged and focused.

It expertly balances education with learning to make learning "sticky" while ensuring material is relevant for the learner, allowing them to retain information absorbed.

How Gamification Enables Learners:

Prepared to combat any threat scenario

Rewarded for good behavior

Encouraged to discuss lessons learned with peers

Incentivized to maintain good behavior

Reminded of what they don't yet know and held accountable

Engaged in their progress thanks to leaderboards

Chapter 4: Continuous Learning Can Empower Your Cyber Team

As we know in this industry, the only constant in cyber security is change, and for that reason we must be vigilant in putting learning to work for us.
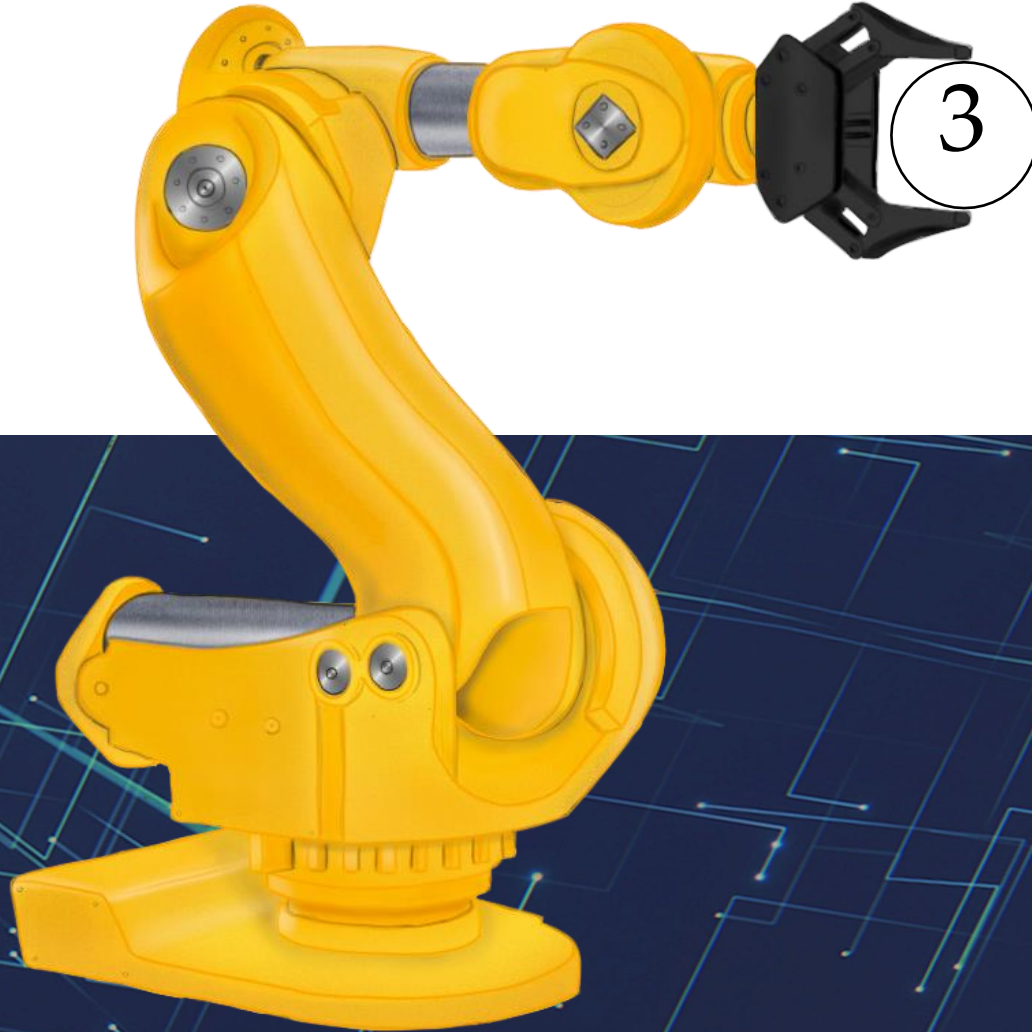
Steps to Develop Cyber Skills in Teams

1

Interview and assess cyber teams to identify skills deficits and, therefore, understand what team members need to learn/develop.

2

Develop teams incrementally and continuously via a "day-by-day, month-by-month" mindset – as the job is never done in this field.

③

Address large workloads via automation and augmentation so that cyber teams can move away from data handling tasks and into higher-level reasoning and analysis.

4 Dedicate resources, set expectations, and align corporate culture with the goal of enabling employees to get the learning they need to protect and defend the organization at every stage of their careers.

5 Provide ample opportunities for skills development through gamified learning, networking, mentoring, and continuing education.

Summing it up

Increased understanding, skill and application of offensive and defensive strategies using gamified learning supported by AI, will greatly improve an organization's security.

Ensuring cyber teams are prepared for real-world threats can be achieved with persistent, hands-on learning opportunities.

Expanding your team's skills through our AI-powered learning platform will bring about long-term benefits that will put them ahead of malicious hackers.

Elevate your understanding of AI and gamification

Now that you know the foundational benefits that AI and gamification can offer your cyber team, let's dive deeper into the ways you can utilize these tools to create a powerful and secure organization.

WATCH OUR AI AND GAMIFICATION WEBINAR

About us

Circadence® Corporation is a market leader in next generation cyber security education and training. Circadence has leveraged its history of software advancement, multi-player game development, and a deep understanding of application optimization to offer Project Ares, the only fully immersive, AI-powered cyber learning and assessment platform in the market today.

Learn more at https://www.circadence.com/products/project-ares/

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