

MAY 2019

# BUSINESS

SIGHT

INSIDE THE BUSINESS WORLD

## The Top 5 Technology

Trends to Look up to in

# 2019

All you need to  
know about  
**Automation Apps**

How Virtual Reality  
has Changed the  
**Entertainment  
Industry**

**Andy Khawaja**  
CEO

Example of Artificial  
Intelligence in Websites

**How Allied Wallet's CEO Andy Khawaja is  
Innovating Digital Payments**





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**Booklet Media and Technology LLC**

304 S. Jones Blvd, #2338,  
Las Vegas, NV 89107, United States  
Phone – (702) 605-0431

Email: [sales@businesssightmedia.com](mailto:sales@businesssightmedia.com)

For Subscription: [www.businesssightmedia.com](http://www.businesssightmedia.com)

**Booklet Media and Technology Pvt. Ltd.**

Level 2, Connaught Place, Bund Garden Road,  
Pune, Maharashtra, 411001  
Phone- India: +919579962597

Email: [editor@businesssightmedia.com](mailto:editor@businesssightmedia.com)

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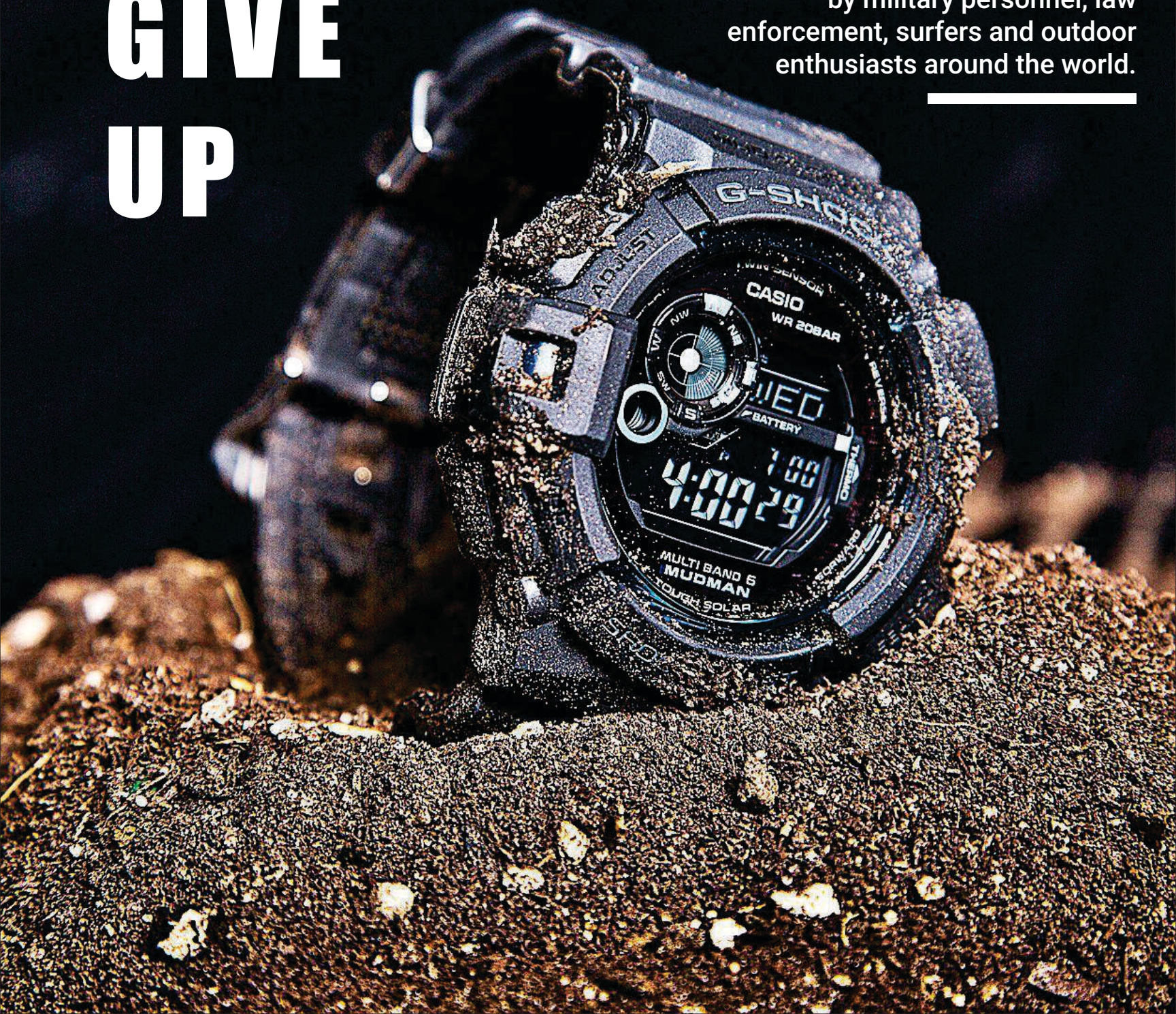
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# Payment Solutions

*Technology has changed the way we live, the way we earn and the way we spend. Gone are the days when customers have to carry a huge amount of cash, in any currency, to make purchases; everything has now shifted to electronic medium. The advent of e-commerce has given rise to online shopping where just by a click of mouse and a simple e-wallet or bank transfer results in buying the product of your choice. Sellers too find it convenient to sell products through websites instead of spending a lot of money on fancy stores and staff.*

**ALLIED WALLET**

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**A**n easy, safe and efficient system was the need of the hour to streamline the entire shopping experience and Allied Wallet, with its range of award-winning online payment processing services has successfully fulfilled the need. Allied Wallet is a leading payment solution provider that continues to outperform all its competitors with its ability to provide best-in-class payment solutions for merchants as well as online business.

Allied Wallet is an International Award- winning company since 2006, located in California. The company offers all inclusive solutions and it is its ability to interconnect all aspects of the payment space that has earned it a reputed position in the international market. It offers payment solutions to customers across the globe including Asia, US and Europe.

The primary goal of the company is to make every employee feels like a family and nurture in him a feeling of being respected and valued. The employees are given complete freedom to speak their expectations and are given tremendous opportunities for growth. 'Happy employee leads to happy customer' is the guiding principle of the company.

Allied Wallet is a company where innovation is encouraged. It has its offices spread across the globe at places like Macau, Hong Kong, India and London.

#### **Why Allied Wallet:**

- Customers are the primary focus of any service or operation
- Ability to continually innovate and add new features to its products
- Competent team
- Best-in-class payment products that simplify the payment process of consumers
- Gives customers accurate, real-time transaction data from anywhere in the world on any device
- Products are PCIDSS Level I compliant and provides 24/7 support to efficiently assist all of its merchants and customers across the globe

**Payment Solutions (Products):** The company gives its customers a wide range of payment options and solutions which are low-cost, secure and convenient. It has simplified the payment process of customers and strives to offer a seamless and bespoke customer experience. It has created several fully customisable international payment solutions for businesses of varying scales. While most of the customers opt to make payment with their credit cards, there are still a lot of them who prefer to use one of the many alternative payment options supported by Allied Wallet. The company has the right set of payment solutions for everyone, regardless of how they choose to pay.

From a payment platform for accepting global payments to an innovative mobile app on the smartphone, Allied Wallet offers a host of online and digitized payment solutions to its customers. The key benefits of using Allied Wallet's payment solutions are not just its services and ease of payment, but, it is the way the company has connected all consumers living in different geographies. It has connected Asian consumers to western products and western consumers to Asian products.

#### **Allied Wallet product line includes:**

**Accept Payment online:** A mobile friendly and fully-featured App for accepting and making payments is the flagship product of Allied Wallet. It plugs-in to every major shopping software and the company offers 24x7 support to its users. Some of the major products include QuickPay which is specifically designed for small and mid-sized businesses looking for a quick, cost-effective, and simple solution to accept online payments. Direct Integration is another product which is a powerful option for larger businesses that provides complete customisation and control over the checkout experience, offering business more scalability.

**Global Payment Gateway:** It connects to shoppers in 196 countries! Allied Wallet's global payment gateway and its modern reporting tools will help customers keep track of their entire account without spending countless hours tracking sales. It can be accessed from any device , can be synced up with any services and scaled to any size. It is equipped with modern features like virtual terminal, customer database, chargeback prevention and affiliate management.

**Reloadable Prepaid Cards:** Allied Wallet gives you



the freedom to load your eWallet and spend with your card anywhere MasterCard is accepted. It gives you access to your eWallet anywhere, anytime. The company offers a powerful dashboard tool where the customers can place the order for a prepaid card and Allied Wallet will issue one linked to their eWallet account. The company charges no annual fees and it can be used at any ATM.

**Global Merchant Services & Online Transaction Processing:** When a business owner looks for an online merchant service to securely accept payments on his website, Allied Wallet is the best option. It offers all-inclusive merchant services. The service has a powerful dashboard with built-in control features. **Mobile Point of Sale & Credit Card Reader:** With its mobile POS the customers can accept credit cards on-the-go. It is a sleek, minimal app built to make you money and give its customers the ability to accept every major credit card on their iOS or Android mobile device. It has a simple interface, manual input and keeps a track of each item.

**Ewallet:** Allied Wallet's eWallet is an all new way to pay friends, family and business associates with an eWallet account. With eWallet, each user can add money by linking a bank account and managing money on their phone or computer with their eWallet dashboard. It is simple to send and receive funds, connect with people, and make purchases.

The company through its innovative range of products is now allowing consumers to open their own Allied Wallet bank account through which they can use any currency, anywhere in the world.



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**CEO, Andy Khawaja:** It is tough to be a leader and it is tougher to be at the forefront of a technological revolution. When you promise customers things that will make their life simpler, there is always a burden of exceeding their expectation and serving them in the best possible way. But, Andy Khawaja, the CEO & founder of Allied Wallet and **International Business Awards 'Financial Technology CEO of the Year' awardee** has done this all, from creating fantastic payment solutions to offering customers products that will make their life simple. He has always challenged the status-quo and innovate something new to solve the problems of customers globally.

He is a man of persistence and resilience and knows how to overcome challenges that emerge in the path to success and established his company as one of the leading payment solution providers in the industry. As per him, innovation is crucial and it is the cornerstone of his business. He has magnanimous plans of creating better payment solutions which are technology driven and making life of customers easier than it was before.

**CSR:** The company with its corporate social responsibility efforts aim to work with a number of organizations to make this world a better place and to support organizations that serve children, animals, police officers, and offer relief from natural disaster.

**The Future:** Allied Wallet has gained a global recognition as a payment service provider. The e-commerce specialist, Allied Wallet has now shifted its focus on the other side of the market and is now moving into providing cutting-edge banking and credit services. Now, the firm has a new target: which is into banking services. It is the firm's belief that today's consumers could benefit from the use of a secure payment technology, and that there is an emerging need of linking consumers and merchants on one platform.

The company already has to its credit phenomenal success with its e-commerce solutions, and now it is eager to integrate new functions onto it to support an even wider range of clients. The products that the company has planned are already unique, and provide a range of functions that cannot be found on any other software.







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Email: [sales@businessightmedia.com](mailto:sales@businessightmedia.com)  
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Company Name	Management	Description
<b>Allied Wallet</b> alliedwallet.com	Andy Khawaja CEO	Allied Wallet is an International Award- winning company since 2006, located in California Allied Wallet is a leading payment solution provider that continues to outperform all its competitors with its ability to provide best-in-class payment solutions for merchants as well as online business.
<b>Archinnova</b> archinnova.com	Diyaa Zebian Founder & CEO	Archinnova was established in 2015 with a mission to “DevOpsify the Middle East market.” Archinnova, an innovative business technology consulting and implementation firm established in Dubai, UAE. Archinnova provides DevOps as a managed service to businesses who are currently running or wish to run their companies on applications in the cloud
<b>FAVORIOT</b> favoriot.com	Dr Mazlan Abbas CEO	FAVORIOT is into a similar business of offering IoT solutions to the enterprise of all sizes, SMEs and Startups. The company in itself is a startup and launched its operations two years back in 2017.
<b>First Line Software</b> firstlinesoftware.com	Mike Medaglia Founder & CEO	First Line Software is a premier provider of custom software development, technology enablement services and value-add consulting in big data engineering, digitalization, intellectual integration, industrial Internet, and IoT, digital media and marketing, and enterprise content management as well as healthcare IT.
<b>Forecast5 Analytics, Inc.</b> forecast5analytics.com	Misha Kostich CEO	Forecast5 Analytics increases financial and organizational performance by empowering local government leaders with analytics. We develop state-of-the-art technology used for data discovery and decision support.
<b>Forecast</b> forecast.app	Dennis K Kayser CEO	Forecast is an innovative tool when it comes to project management, its support is the most effective I have seen before, it has a spectacular interface, it is very easy to navigate, and personally, I have improved a lot in the planning and effectiveness of projects.
<b>Intellatek</b> intellatek.net	JJ Christian Managing Partner	Intellatek is a unique and revolutionary technology company tailored towards charter and private school technology support. The company offers remote support, network installation and personalized technical support packages, visitor management, hardware procurement to all its schools.
<b>Kaneron Systems</b> polaristransport.com	Jorge Cortell CEO and Founder	Polaris Transportation Group has been known as a carrier who specializes in the transportation of LTL between Canada and the USA.
<b>LeaseLock</b> leaselock.com	Reichen Kuhl Founder & CEO	LeaseLock is the first nationwide A-rated (Excellent) lease insurance program—backed by leading insurance venture funds including Liberty Mutual Strategic Ventures and American Family Ventures.
<b>Trilliant Networks, Inc</b> trilliant.com	Andy White CEO	Trilliant has been empowering energy providers to integrate renewable and distributed energy sources with actionable intelligence through an open and secure communications platform since 2004.



**Diyaa Zebian**  
*Executive Partner*

# ARCHINNOVA

In today's knowledge-hungry era, it has become crucial to bring together people, processes and technologies to enable more effective and dynamic use of information technology and communication. More value-based innovative solutions and services should be added to empower businesses and enable them to focus on what they are good at – their core business.

Archinnova was established in 2015 with a mission to “DevOpsify the Middle East market.” Archinnova, an innovative business technology consulting and implementation firm established in Dubai, UAE and serving the Middle East offers end to end Agile and DevOps solution. Its “DevOps 360” model is supported by best practices driven methodologies and is powered by leading solutions. The model is implemented by highly skilled engineers who ensure tangible results through a partnership journey of collaboration, knowledge transfer and flexibility.

Archinnova provides DevOps as a managed service to businesses who are currently running or wish to run their companies on

applications in the cloud. Archinnova works in tandem with the client's development team and in-house architects and assists them in making use of the benefits of the cloud and ensuring that their entire web application runs efficiently and effectively.

Archinnova offers innovative solutions, and that differentiates them from their competitors. Also, the team of Archinnova and its systems, processes, and tools are a significant differentiator.

Archinnova offers the following services:

**Dev Ops Consultation:** Helping organizations to transform through “Enterprise DevOps.”

**Cloud Automation:** Enabling organizations to adopt the right “Cloud Strategy”

**CI/CD:** Assisting organizations in building the best-fit “Development Pipeline.”

**Continuous Testing:** End-to-End Software Testing Services

**App Modernization:** Refactoring or building applications using “Modern Engineering.”

**Containerization:** Developing and implementing the right “Container Strategy.”



**DevOps Training:** Full DevOps training covering conceptual & practical courses

**Staff Augmentation:** Deploying the right DevOps skills on premises

Archinnova's USP:

- The only local company with end-to-end DevOps offering with local expertise
- Covers the end to end life-cycle including consultation, training, system integration and after-sales support
- In-depth cultural understanding
- Solution designed around customer's goals and agenda instead of vendors'
- Adoption of technology to steer towards business efficiency and not technology fashionista

Archinnova has a list of prestigious clients whom they have served successfully over the years. It has served almost all industry verticals, from banking to Government, Telecommunication and Insurance and Aviation. The company prides itself in providing services that are not only product and implementation oriented, but also offer real collaboration. The company's objective has always been to enable its clients to run their business without any fear of the system getting failed.

Founded with the mission to "DevOpsify the Middle East market," Archinnova's services are designed around the idea of integrated enterprise value engineering lifecycle management. The company provides post-implementation support until the customer gets acclimatized to the tools and processes. The company is customer-centric rather than vendor-driven where its end goal is a satisfied customer.

Diyaa Zebian, the Founder & CEO of Archinnova, has more than 25 years of experience in the Middle East market and is known for his visionary approach. He has pushed the right IT wave at the right time, and

he is the person behind many successful waves like J2EE, SOA and, SaaS.

Diyaa Zebian, captain of the ship, is a true leader, he knows how to get the work done from his employees and still get the best result. He is a go-getter, and he knows the right way to push his fellow workers to their maximum capabilities making sure every task is aligned to his vision by giving them the freedom to work and think out of the box. DevOps behavior and transformation is a skill Diyaa has inculcated over the years, making it easier for him to pitch the right strategy at the right place.

"Going ahead, we will continue to provide end to end software development support along with consultation, training, system integration and after-sales support, ultimately delivering a solution designed around customer goals and agenda," says Zebian.

**The company beholds its future objectives as**

- Expanding horizontally towards the other countries in this part of the world
- Expanding Vertically by adding complimenting product and services especially the security side (DevSecOps)
- Expanding in the existing customer base to assist in their transformation journey
- Boxing services packages to fit the market with the focus on training courses to create better awareness

Archinnova's best-of-the-breed approach provides no vendor lock-in feature which ensures the customer doesn't have to replace any existing investment. For the coming years, the company's vision is to provide in-depth cultural understanding and continue innovation to accelerate business efficiency.

# THE TOP 5 TECHNOLOGY TRENDS TO LOOK UP TO IN 2019

**T**he year of 2018 flourished with innovative breakthroughs in the technology sector such as IoT, Machine Learning, Artificial Intelligence, 5G, 3D metal printing and much more. However, what's 2019 going to witness? What advancements are expected? How are these going to affect our future?

Consumers and enterprises have a lot of untapped potentials of technology to look forward to, as technology is consistently becoming more reliable and affordable to serve mass markets.

Let's get onto what technology has kept reserved for 2019, reveal possibilities that heighten the momentum of the applications that it currently serves, and delve further into more industries to explore newer applications.

**Blockchain to go mainstream**

Blockchain proved to be a steadily progressive operation soon after its introduction. It has applications that began in finance (it was initially deployed to manage Bitcoin transactions), now covering the sectors of governance, healthcare, manufacturing, supply chain, and many others. 2019 is going to witness how it is going to be incorporated into 50% of the businesses nationwide.

A study by the Cambridge Centre for Alternative Finance indicates the 20 % of the banks surveyed affirmed they would deploy blockchain technology into the corporation within the next couple of years. Also, 40% of them admitted that they believe blockchain will be a staple of finances within the next decade. The UK Central Bank announced that it would adopt blockchain technology in their

interbank transactions to strengthen their security systems and collect more business.

This self-disruption of classical systems is going to be a positive part of the trend, bringing more innovation as well as transparency to the ecosystem.

More autonomous gadgets to be worked on  
The use of artificial intelligence to make devices perform tasks traditionally done by humans is going to exponentially increase in 2019, creating space for several autonomous gadgets.

Autonomous things are categorized into five types, viz. -

- Robotics
- Vehicles
- Drones
- Appliances
- Agents

Although they do not have the same capability as a human brain for decision making, intelligence or general-purpose learning, they are reliable to a great extent for human tasks such as farming, driving, parking, etc. Many companies today are working on such bots. With Alexa, Cortana, Google assistant, and Siri, users already perceive the power of AI and what the future could be. Recently, Volvo revealed their first fully autonomous electric car which promises a peak into the future of travel. Sophia, the humanoid bot developed by Hanson Robotics has secured citizenship of Saudi Arabia, traveled the world giving talks and debating the future of humanity.

Further developments in the field of artificial intelligence are accelerating, and AI-based cybersecurity to prevail  
With the increasing awareness about the worth of personal information, digital privacy is a significant concern for consumers. The enterprises that don't pay enough attention to privacy and ethics will find themselves in a challenging position going forward.

87% of the cybersecurity professionals are stated to be aided by AI in the year 2018, and the number is

sure to be increased. By and large, total adoption of AI-based cyber security is expected to come about in 2019. The reason for reliance on robots for a thing as crucial as cybersecurity is not one, to name a few, we say that they-

- easily transform incident data and prior responses into a proactive security stance
- are not only quick and accurate but also intelligent enough to eliminate false positives
- automate security prioritization
- learn and retain past threat

Evolution of computing

A deviation from the classical form of computing is expected to flourish in the year 2019. Development of quantum computers is consistent, and these next-gen computers are expected to become commercially highlighted.

Quantum computers are multiple times more reliable and efficient than the classical ones; they can theoretically work on millions of computations together at once. Also, they're expected to solve most of the problems that modern computers aren't capable of. The inclusion of superposition and entanglement phenomena is what brings significance to these mechanized brains.

Recently, IBM has developed a fifty qubit computer, which it has made open to use, researchers are already using quantum computers for simulations and other computation.

Introduction to new operating systems, antivirus and other advanced software will be a part of this trend of evolution.

So we saw five emerging disruptive technologies that are going to serve frontiers on realms of research, entrepreneurship as well as consumption. Although the tech sector always has something unexpected to present, the operations stated above are much promising and well grounded. They're sure to transform the market in every due aspect.





# FAVORIOT

FAVORIOT- BUILDING RELATIONSHIPS  
THROUGH OPTIMUM IOT SOLUTIONS

The breakthrough changes in technology have metamorphosed businesses. Companies today seek to digitally transform their business operations for instant visibility, collaboration, and communication. No service exists which does not make use of technology in one or the other way, be it finance, healthcare or Travel. The world has suddenly become a smaller place to live, and IoT, with its agile solutions, has made all processes convenient and straightforward.

FAVORIOT is into a similar business of offering IoT solutions to the enterprise of all sizes, SMEs and Startups. The company in itself is a startup and launched its operations two years back in 2017. The company is ardent to provide highly innovative solutions that satisfy the need of its client and establish a long term relationship with them. FAVORIOT products are highly innovative and equipped with advanced technology in the Internet of Things.

FAVORIOT is known among its clients as a company for its prompt response to client's demands both in terms of product offering and

its business model. The company has built a secure IoT ecosystem for seamless customer experience across the entire value chain. The company's expertise lies in IoT platform or middleware that allows sensors with different connectivity protocols to be connected on a single platform. It also allows IoT software developers to create their solutions using the APIs provided.

IoT is complex, and there are numerous services attached with a single product; therefore it is not feasible for an only company to offer the entire range of IoT services. Looking into the complexity that comes with IoT, FAVORIOT has kept its product line simple yet innovative to exceed customer's expectations. FAVORIOT encourages the growth of an IoT ecosystem and helps others to develop their IoT products quickly without investing or developing their own IoT platform.

Being an early IoT player in Malaysia gives FAVORIOT the presence, brand, and trust in providing advice and become a partner in delivering IoT solutions. FAVORIOT offered IoT solutions to more than 20 Universities and companies as their teaching and R&D, and within a short span of two years, there is a



700% upsurge in the number of platform users from over 25 countries.

RAQIB is a successful product launched by FAVORIOT; it is a solution that will help the family members monitor the elderly parents who are staying home alone. The idea behind the product is to solve the problem of the upcoming aging population issues worldwide. The elderly need to wear smart wearable equipment that sends their health vital signs and location to a mobile application. Geo-fencing is activated to ensure alerts are notified to their children, especially for the dementia persons.

Later, the company expanded the RAQIB service to Hajj Authorities and Travel Agencies to monitor their Hajj pilgrims during their pilgrimage. Here, the objective is to provide peace of mind to the related authorities and the family members in case there are missing pilgrims. The service offers the family members of pilgrims with near real-time location of their whereabouts.

Through RAQIB, the company also extended its services to Travel Tour Agents to monitor their travelers, hospitals to monitor their remote patients and employers to ensure their staff safety.

FAVORSENSE, yet another solution from FAVORIOT is a crowd sensing platform that allows citizens or organizations to make incident reports easily through a mobile application. The report can be quickly and effectively handled by the relevant authorities later. With FAVORSENSE, the authorities will be seen as more proactive, collaborative, engaged and transparent in managing their customers. All incidents or reports will be geo-tagged and finding the location will be accessible by the field-force or contractors.

CEO, Dr. Mazlan Abbas has more than 30 years of experience in the academia, government R&D agency and telco industry. It

is his rich and diverse experience that helped him to flow from the job world onto a journey of entrepreneurship. The experience that he gained from working for different sectors helped him gain considerable knowledge of the intricacies involved in various industry domains. Through IoT solutions that are being offered by FAVORIOT, he dreams of touching every aspect of life with technology, therefore, making lives of human beings modern yet straightforward.

From academics to SMEs, Travel Agencies and public, FAVORIOT has served almost all industry verticals. The company is optimistic about a successful future and is actively seeking investors and partners for further market expansion beyond Malaysian shores to become a global player.

# EXAMPLES OF ARTIFICIAL INTELLIGENCE IN WEBSITES

**A**rtificial Intelligence is an enabling technology that allows web applications to adapt over time by observing and learning from users' habits and preferences. User experience improves as a result of the applications becoming smarter. It offers many advantages in person-machine interactions. With the invention of AI, applications do not approach a problem in the same way time after time and make the same mistake. It optimizes and modifies the solution based on prior experience and human interaction because despite the technology-driven world we are in; most people still value the human touch more. Even though AIs can make work through automation easier, human input is still essential for AI's to function better.

## Benefits of Artificial Intelligence

- AI multi-tasks and performs monotonous, repetitive jobs quickly with the help of machine intelligence
- AI reduces errors, increases the degree of precision, and helps in organizing and managing data
- With the help of programming robots, AI performs tedious and difficult tasks with greater responsibility and precision
- As machines don't require breathers at regular intervals, AI can be programmed for long durations without breaks

## AI in Websites

Using AI solutions enable websites to adapt better to the needs of the user. Real-time learning technology evaluates customer's mood and understands their preferences. According to research, AI allows to dynamically modify websites as per the customer by including a search through the website. AI opens excellent opportunities for e-commerce marketers as well. With the implementation of AI solutions, the online experience of users is becoming more personalized. The goal is not only to make navigation through the website clear but also to provide the customer with the perfect search environment.

## Examples of AI in Websites

1. **Wix**- Wix does not need any introduction when it comes to designing websites. It has an easy drag and drop feature that can make beautiful user-friendly websites. It provides the option to help you develop the website quite easily and faster with the help of AI now. The AI platform enables you to design websites and also customize it according to the client or the end-user. This attracts users to create the site faster, and easier as per their own choice.

2. **WordPress plugins** - AI can play a vital role in improving WordPress search, grammar and style of the content, show related content, boost sales for e-commerce and improve conversions. WordPress plugins that use AI have a smarter, faster, and more personalized website for users. It also helps to save a lot of time despite contributing to the growth of the business.

3. **FireDrop** - Firedrop uses AI named Sacha that designs websites automatically around the content provided. It does not use any templates, or web designers, just its own AI designer (Sacha). Firedrop aims to put the possibilities and limits of the web into the hands of ordinary people and automate the process of designing and generation of websites using AI.

4. **The Grid** -The Grid uses the power of AI to grab everything from- videos to images, texts, URLs and automatically puts them into a custom website created as per your unique preference. The Grid evolves with the user as and when their needs grow. It effortlessly adapts to all the requirements and is undoubtedly one of the best personal AI web developers.

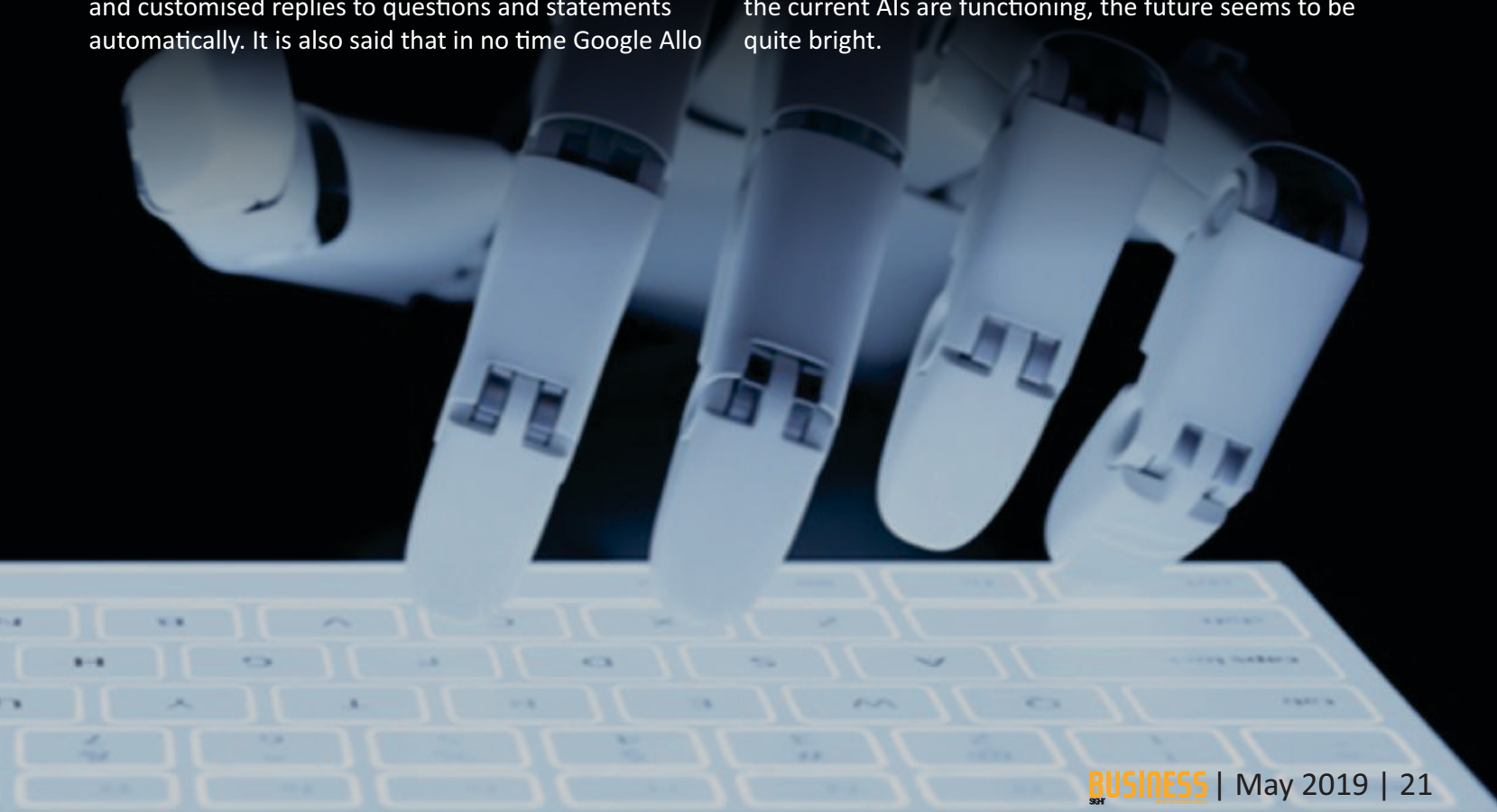
5. **Google Allo** - This is a progressive AI technology of smart replies, which was introduced in 2015 and has taken over the world of texting and emailing ever since. Google Allo uses machine learning to create appropriate and customised replies to questions and statements automatically. It is also said that in no time Google Allo

will provide its users with compound responses, mixed up with emojis and stickers as well.

6. **Rank Brain** - The next one is RankBrain that is a self-learning AI system. Its primary task is to present better results to user inquiries. It uses mathematical formulae and analysing language semantics to understand and learn the manner and reason of human search. It then applies these conclusions into further research, and facilitates the mechanism of users' investigation.

7. **Street View** - Street View is designed as a specific function of Google Maps and Google Earth that offers to enjoy various views all around the globe. It has the ability to show the users panoramas of stitched photographs. Street View is known to a useful source of virtual travelling, as it displays the most distant parts of the Earth in real time.

There are many benefits that AI offers in different industries all over the world. Despite all these praiseworthy innovations in technology, we still have a long way to go when we are talking about AI taking over most of the jobs that humans usually carry out. AIs are web designers' best friend as it makes their jobs faster and more manageable. This enables them to have more time to deal with complicated tasks rather than having to work on a tedious one. In web design, based on how the current AIs are functioning, the future seems to be quite bright.







# INTELLATEK

## INTELLATEK- COMPLETE IT SOLUTIONS FOR SCHOOLS

Technology has touched all aspects of our lives, and education is not far from it. When technology gets blended with education, it produces stupendous results which benefit all the stakeholders, from students to their parents, teachers, mentors, principals, and directors.

Intellatek is an effort in the direction of making technology work for education and producing results which make delivering education efficient and straightforward. Intellatek is a unique and revolutionary technology company tailored towards charter and private school technology support. The company partners with schools and fulfills their day-to-day technology needs. The company has been successfully running over the past 20 years and delivering an extensive range of IT services and solutions.

Intellatek with its unique service offering has partnered with private and chartered schools and assist them in managing all their IT endeavors, be it lunch management, staff training or managing their virtual libraries. The company is trusted by over 30 schools in Nevada and surroundings and known for its

ineffable and revolutionary technology support. The company operates currently in 4 states (NV, HI, CO, AZ), but is looking to support schools in (ID, CA, UT) within the next year(s).

Intellatek's expertise is in knowing all aspects of what a school may need from setting up state-mandated testing to helping the administration with daily interactions of their student information systems. Intellatek assists with everything from day-to-day technology operations to network and wifi infrastructure support. It could be rolling out 20 Chromebook/netbook carts or helping them with their lottery system for enrollment.

The company offers remote support, network installation and personalized technical support packages, visitor management, hardware procurement to all its schools. The company provides turnkey and bespoke solutions, one that is specifically needed by a particular school.

Intellatek believes in nurturing long term relationship with its clients based on mutual trust, collaboration, and state-of-the-art services. The objective is to let the school management focus on their core activities and

Intellatek taking care of their technology needs at a price which is affordable and saves much time.

Intellatek has a unique process; it starts with understanding the need of the school, what kind of technology integration they expect and the timelines we have to deliver the project.

It offers ticketing system, automated inventory system of hardware, 24/7 server and network monitoring along with phone support for quick response to resolve an issue. Intellatek offers solutions from quotation to delivery and installation. The company has teamed up with Ident-A-Kid, the complete visitor management system to give maximum traceability and control of all visitors accessing the campus each day.

The team at Intellatek is all domain experts who are dependable and ardent workers. They know how to handle a client's inquiry and offer him a service that suits his specific need. The team ensures that it takes away the time-consuming aspects of IT and arranges further discounts for volume purchases from particular manufacturers and distributors. The technical support team at Intellatek has extensive knowledge of past and present technologies that continue to be used throughout the education sector. The company has over 20 years of ongoing experience, delivering a broad range of services and solutions.

Intellatek has a host of products to offer to schools to ease their working, like Apps and software such as email hosting, Microsoft Lync, Microsoft Onedrive and Microsoft Sharepoint. The company also provides Network Management Solutions like the design of the entire network with security and reliability.

As per the Managing Partner, JJ, the greatest strength of Intellatek is the quality service that it provides to schools. From phone support and video surveillance to SIS assistance, Intellatek is a one-stop shop for educational technology support. Its strategic procurement process, professional development and training, and

content filtering/digital forensics are other services.

JJ emphasizes improving Intellatek services and conducts annual retreats with his management team to focus on how can they provide better services and pinpoint new services schools might need. He believes in always stopping and looking back to where they came from helps keep them humble and focused on never settling. As per him, the company continually strives for excellence and will never quit until it has achieved the highest level of excellence.

JJ believes that a successful technology company knows how to cultivate the following essential characteristics: Effective communication, excellent customer relationships, teamwork, outstanding products, quality service, integrity, notable leadership, and loyalty and it helps in flourishing their business and become successful.

The company is optimistic about a great future in the industry and wish to provide peace of mind to schools without disrupting their sensitive budget.



The modern technology has opened the door to a connected, high-tech world that was a dream a few years back. The power and capability of our phones and tablets continue to increase manifold, and the smartphones are becoming smarter. It is incredible how much our phones can do with just a little setup. The newest addition to the list of things are smartphones can do is automating tasks using either built-in functions or added apps/services that are readily available.

Let's take a look at how our phones can perform tasks by automation apps on the device. Functions performed by the automation apps can be now forgotten about. This saves a lot of time that can then be utilized for the things that matter.

#### How to use Automation Apps?

The smartphones are leaving no stone unturned to spoil people and making them heavily dependent on technology. With all of its wonder and conveniences, smartphones and tablets can help us solve most of our everyday problems and reduce the burden of performing specific tasks every day.

#### Uses of Automation Apps

- **Automate Wi-Fi Based On Location and Charger Connection**

Automating Wi-Fi is an extremely simple concept. It is the perfect solution for problems of wi-fi eating up the entire battery. Most people don't want their wifi enabled unless they have their phones plugged in because of the amount of power the Wi-Fi consumes. Wi-Fi Automation monitors the power supply and allows the wi-fi whenever it is plugged in. This saves a lot of people from draining their batteries on wifi.

Another significant use of automation apps are when you're at home and want to use your Wi-Fi, and stop your smartphone from consuming the data from your cellular data plan. The automation app helps you save cellular data without having you to remember to switch it off every time you are in a registered wifi range.

#### • Automating Bluetooth Connections

Another similar concept is to automate your Bluetooth connections. This app is very flexible, and lets you enable or disable Bluetooth depending on the location of your phone and whether it is in the range of any of your paired devices. So in case you have a power supply plugged in, or want the Bluetooth enabled upon incoming calls, you can automate your Bluetooth settings and only use Bluetooth to pair with a Bluetooth headset. The app settings help you define how you want to automate Bluetooth as per your conditions.



# All you need to know about Automation Apps

## • Automating Smartphone as per Schedule Or On Events

This feature is a lot more complicated than just automating the enabling or disabling of Bluetooth or Wi-Fi. Automation app allows you to automate and customize tasks on the phone at the time of a certain event taking place, or on a regular automated schedule. Through these apps, you first create the tasks, then define their schedules or delays for those tasks, and then set the alarms accordingly.

Automating an action that you want should occur either after a certain trigger or on a schedule can help you save time as well as effort. The types of actions that the automated apps perform include opening a file stored on your device or a website URL, launching the main screen of any app on the device, running a shortcut or customizing your unique actions.

These apps let you dictate how exactly you want to automate those tasks. The defined tasks can be delayed after the trigger event as well. You can automatically launch tasks on a schedule by just setting alarms as well.

## Configuring Automatic Phone Profiles

Another useful way of automating your apps is by configuring automatic profiles. This app is simple but very useful. You set up either time or location profiles that have specific settings for ring mode, Wi-Fi, Bluetooth, and

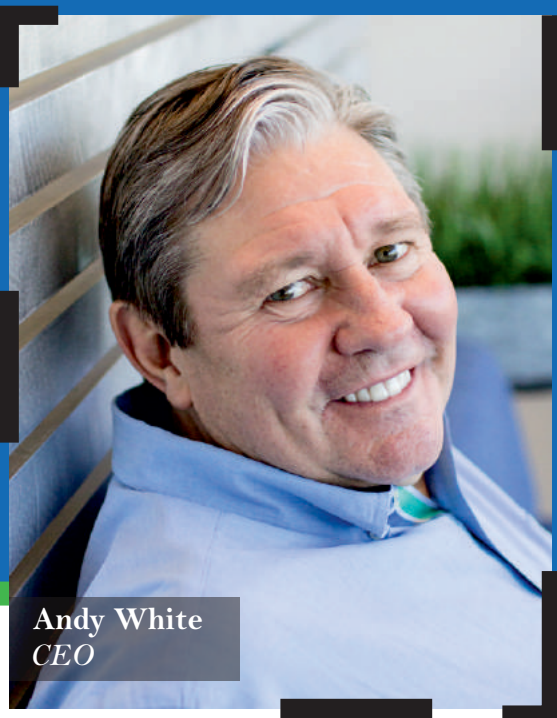
telephone. This app is mostly used to control when the phone is in vibrate-only mode, or in normal ringtone mode according to the location of the phone.

By configuring all the apps you can ensure that your phone is almost entirely automated, and it can launch apps, websites or files on a schedule or based on other actions, making your automation possibilities nearly unlimited.

## Future of Automation Apps

The most significant innovation in the age of automation is the working models built around human-machine collaboration. As robots take over the routine tasks, humans are starting to move into the space of newly created roles such as data analytics, robotic engineering and other roles that require the unique qualities such as creativity, initiative, leadership, and teamwork.

All these developments underline the fact that human skills will continue to have a pivotal role in the modern workplace. However, for its potential to be realized, businesses must ensure that workers have the right skills to meet these future challenges. Artificial intelligence is the latest in a long line of remarkable developments designed and delivered by humans that ensure the benefits of this innovation extend to everyone.



Andy White  
CEO

# TRILLIANT

## POWERING THE ENERGY INDUSTRY THROUGH INTELLIGENCE AND CONNECTIVITY

In the world full of smart and intelligently connected systems, a company that uses antiquated systems can be easily wiped out of the market. Especially for energy providers, it has become a must to improve the reliability and efficiency of services while reducing the overall operating costs.

### Trilliant: An IT Trailblazer in the Tech-driven Energy Industry

It will not be a surprise if the energy industry soon merges with the telecommunication industry. Nearly every industrial sector is undergoing a technological transformation, and the energy industry is no exception.

Various industries have begun to undergo the 'intelligent' evolution over the past couple of years. However, Trilliant has been empowering energy providers to integrate renewable and distributed energy sources with actionable intelligence through an open and secure communications platform since 2004.

During the journey of over 15 years, Trilliant has equipped many global energy providers with hybrid wireless communications

infrastructure and solutions to become a connectivity industry giant. The vision for Trilliant has been to enable these providers around the world to bring a transition towards smart grid and smart cities with the help of intelligent networks.

The "one size fits all" trend works neither in the connectivity industry nor in the energy industry. Thereby, the Trilliant Smart Communications Platform brings a myriad of technologies, such as low power wide area networks (LPWAN) and multi-tier Mesh that will synchronize with dynamic end-user requirements.

Trilliant enables the diverse communication challenges and limitations across the world with its rich ecosystem of partner applications. These partner applications enable energy providers around the world to connect high volume sensors and endpoints while connecting to grids and distribution assets with the utmost simplicity. Additionally, Trilliant employs unlicensed 2.4GHz and 5.8GHz frequencies, which are available globally, and can help energy providers serve both their domestic and

international end-users with completely divergent requirements.

The linchpin for Trilliant's accelerating growth is its passion towards serving its best product portfolio to meet the exact needs of its customers. Trilliant believes in striving to offer its customers increased visibility into its networked devices, and transparency is the key!

Trilliant's devices are widely used in applications in diverse customer bases, including water meters and streetlights by utility providers and organizations of various sizes. Trilliant helps not only in achieving improved efficiency by collecting and surfacing data through the network, but it also lets customers monitor the implementation of each device on its network.

Another important part of the broad substratum of Trilliant's success is its strategic partnerships grown over the last 15 years. Trilliant shares a strong bond of with some of the world's leading utility providers, such as Hydro One, TNB, and British Gas. These collaborations have aided the company to deliver networking solutions that have a positive and lasting impact on its customers' current business models while meeting their future needs.

Its strategic vision to meet each one of their clients' unique requirements has led to Trilliant becoming a leading industry player in the connectivity and IT landscape. Despite being at this powerful position in the industry, Trilliant still believes in pushing the envelope to provide value to its customers by creating a platform to reach their desired outcomes.

### **The Leadership that Guides Trilliant in the Connectivity Industry**

After serving as a President & CEO of several General Electric (GE) businesses and as a GE Corporate Officer, Andy White joined Trilliant

as CEO in March 2009, bringing with him 30 years of experience in the energy and communications industries.

Before joining Trilliant, Andy played an important role in expanding business for GE Power Systems and GE Energy worldwide. He held several high positions in the organization and spearheaded the company's important infrastructure and communications projects across Congo, Egypt, Saudi Arabia, Iraq, Dominican Republic and Algeria. Andy also played an instrumental role in the formation of the GE-Hitachi partnership, which led to creating GE Hitachi Nuclear Energy (GEH) – one of the world's largest supplier of provider of advanced reactors and nuclear services.

In his 10 years with the company, he has overseen Trilliant's expansion and it's growth into a global powerhouse. Today, Trilliant operates offices in the United States, Canada, United Kingdom and Singapore.

Through its triumphant journey of 15 years, Trilliant has grown to have more than 75 customers across the globe, with nearly half of them implementing Trilliant's platform in wide-ranging applications. The company has already secured 60 patents, and 15 more pending. With over 500 million customers, Trilliant's solutions have reached end-users across more than 20 countries.

The company has been heading towards new locations to expand its global footprint. In 2017, the company relocated to a new global headquarters in Cary, North Carolina in order to better support its global operations. The future strategies of the company are focused on strengthening its position across many geographical locations in order to continue support the smart cities of the future.



# HOW VIRTUAL REALITY HAS CHANGED THE ENTERTAINMENT INDUSTRY

Entertainment is usually associated with immersion and escape, making us forget about reality. Virtual reality (VR) offers precisely the same, but with a massive technological incentive, real-time simulating environment and graphic that sometimes look better than the real world.

## What is Virtual Reality – Origin and Concept

As early as 1956, Morton Heilig, planted the seed of simulated environments in the tech sphere with his prototype of Sensorama, the first ever “experience theatre”. The crude concept behind this set up was generation of a fantastical world and mechanical replication of actions of the real world. It's been six decades since then, and it'd be unmistakable to say that all this time has been a long haul with efforts put in and challenges all accepted by scientists worldwide upon the foundational work of Heilig.

The evolution has led to today's digital era, where frontiers are using the same ideology in diverse domains of the prevailing age, which include-

- Education
- Health and medication
- Military
- Real estate
- Training
- Business and marketing
- Automobile manufacturing and aviation

Even so, the industry that is exploiting the most out of visual technologies is that of entertainment, as the fusion

of these two industries incredibly exciting, creative and imaginative. But exactly why and how is VR so impactful on the entertainment industry?

The reason is not one. The rationale is discussed thoroughly below, go on reading!

## VR gaming

Traditionally, players use either a console controller or a combination of keyboard and mouse to play video games. VR technology allows players to interact directly with the 3D in-game entertainment environment. Recent technological advancements like inclusion of room-scale motion and controllers make VR games more immersive and fun than ever.

The adoption of VR tech by major gaming platforms like Sony PlayStation and Microsoft Xbox and the introduction of mass-market VR headset devices like the HTC Vibe and Oculus Rift have been instrumental to democratizing access to the technology. A classic example of how VR is being focussed upon by game developers is the development of Catan VR, the VR version of iconic 1995 board game Settlers of Catan.

Currently, simulation VR games (shooting, races, and action) are highest in demand; however, content developers are soon expected to saturate the market with a more diversified menu of games. The challenge of converting ideas into engaging gaming remains.

## Cinema

Films have always been about creating immersive storytelling and engaging experiences. Many experimental



attempts have been made to redesign the traditional style of reporting of who, what, when, where, why and how of information and create an unprecedented experience for the viewers. Adoption of VR tech is one such attempt.

Studios, producers, and directors are all turning their collective attention toward learning and rethinking of ways to use VR to tell stories and immerse moviegoers into giddy adventures. VR experience goes beyond the sedentary entertainment of reading newspaper, web browsing or watching TV, and even traditional theatrics in which it's mandatory to look forward. In VR, viewers can look in any direction they want and find themselves in the same fantastical environment.

The first ever VR cinema was opened in Amsterdam in 2016. It is plain rooms without any screen, and the audience sits in 360 -degree rotating seats, wearing a head-mounted display. Films are displayed entirely in virtual reality.

IMAX, the center of cinematic technologies recently partnered up with a director/producer Michael Bay ('Transformers'), video game developer Starbreeze and Google to develop six "virtual reality hubs" around the globe which incorporate stunning cinematography and IMAX's award-winning vistas.

### **Music**

The music industry is huge. VR technology can be applied to it in diverse forms. Here's how- Videos can be created with the help of 360-degree cameras, like they do at MelodyVR app which is currently available on Oculus Go and Samsung Gear VR headsets.

Concerts can be of fully-simulated type with the use of virtual environment and avatars of artists. TheWaveVR provides this experience. Superstars including Coldplay, The Weeknd, and Katy Perry have been showing much interest in this technology lately.

Live concerts can be enjoyed sitting at home through VR. Today, almost all major music festivals including Ultra Music Festival, Mad Cool Festival, Sziget Festival, and Festival Primavera Trompetera have created their own applications for virtual reality for fans. This technology is expected to be one of the most important revenue streams for musicians and producers in the near future.

### **Amusement parks**

VR has taken amusement and theme parks to another level. The most common way to use VR in theme parks is to overlay it onto already existing rides (rollercoaster, drop tower or water slide). A classic example of this is the Iron Dragon roller coaster ride, in which you physically aboard a suspended coaster, but the VR experience sees you flying through an old-tiny village while ogres and orcs attack you.

"The Void" and "The Virtual Arena" are examples of fully immersive VR theme parks, currently loved by thrill seekers.

### **Conclusion**

We like to think of VR tech as a sequel to the concept of entertainment which extensively embraces the cyberspace. The innovative ideas have and will continue to push the boundaries of entertainment to extraordinary niches. It's going to be interesting to see how further developments in technology meet creativity to generate trendy recreation options.



**A**s tech-savvy and obscure as the term "home automation" may sound to some of us, it is essentially a popular buzz-word of 2018. Here's everything you need to know about automated homes or "smart homes." Read on.

#### Home automation explained

Home automation describes a system of networked, controllable devices that work together to make a home more comfortable, customized, efficient, and secure. A smart home anticipates all your needs, from creature comfort to security. Its actualization is based on the idea that communication signals can be sent between devices through a technology called Internet of Things to make appliances work. For example, you can simply press a button on your smartphone or send a command to voice controlled devices (like Alexa/Google Home) to have a device turned on or off in a smart home.

The machinery of home automation lies upon two base concepts-

1. Automation – the ability of devices to be programmed to turn on and off on their own, complementing the day-to-day events. This programming may include time-related commands, such as having your coffee brewed in the coffee-maker at specific times each day, or include non-scheduled events, such as turning on all the lights in your home when the security alarm is triggered.
2. Remote control – the ability of devices to be controlled from a distance. Home automation comes in with hands-on control, offering access to all the connected devices. From arming and disarming your security system to locking and unlocking doors, resetting the thermostat and adjusting the lights, you can do all through a single network, from anywhere in the world.

The fettle of automation today is indeed a remarkable artisanship of the most excelled engineers of the world which have foundational grounds of primitive labor-saving machines like water heaters, refrigerators etc.

According to Li et al. (2016), there are three generations of home automation-

- 1) First generation: wireless technology with a proxy server, like ZigBee
- 2) Second generation: artificial intelligence that controls electrical devices, like Amazon Echo
- 3) Third generation: robot buddy that interacts with humans, like Robot Roomba and Roomba.

Various technologies can be used to actualize a smart home. Some use your existing home power lines, some using radio frequency (RF), some using Wi-Fi, while others use a combination of these.

Home automation typically connects the controlled devices to a central hub or "gateway" from where all of them are monitored. The user interface of the system uses either wall-mounted terminals, tablet or house

computers, a mobile phone application, or a web interface, that may also be accessible off-site through the Internet. Though most modern and handy UI remains a mobile applications (like Insteon, Nest, Honeywell, Ring, Philips Hue, WeMo, and SmartThings) that allow access to the home devices from anywhere in the world.

#### Perks

Whenever you think of home automation, you imagine a house that is customized just according to the routine and requirements of its residents, but what (and what not) is explicitly included in it and what are the boundaries of possibilities of a smart home? Read on to find out –

- 1) Lights – turn on/off or dim the lights from anywhere. Not just this, customize the number of lights and illumination level for different situations – for example, you can set up a party mode, dinner mode or sleep mode and turn them on accordingly.
- 2) Occupancy awareness – always know about the number of people currently present in the house with devices smart meters and CO<sub>2</sub> sensors which are a part of most automation systems. You can also set up automatic responses for every time someone enters the house.
- 3) Appliance control and integration – know the current status and control all the connected devices on the go. You can also integrate devices for novel results, like taking advantage of high solar panel output in the daytime to run washing machines.
- 4) Security – lock all the perimeter doors and windows of the house from wherever you are and get remote surveillance of security cameras over the Internet. Also, customize the house according to your security purposes.
- 5) Notifications – get notified whenever a leak, smoke or CO detector is activated.
- 6) Care – track down babies, pets, elderly and disabled inside the house for better nurturing and care.
- 7) Air quality control – monitor the air quality and check pollution inside the house easily.
- 8) Smart Kitchen and Connected Cooking - Use voice control devices or mobile apps to manage coffee machines, ovens, and other kitchen appliances.

#### Snags

Every technology breakthrough comes with certain pros and cons. Here are the snags of home automation –

- 1) A Wi-Fi connected to the internet is vulnerable to hacking.
- 2) Technology is still in its infancy, and consumers could invest in a system that may become abandonware soon. For example, servers of Revolv Hub home automation were shut down in 2016 rendering the hardware useless.
- 3) It involves a high cost of ownership, inflexibility of interconnected devices, and poor manageability.

#### Closure

Although it comes with some pitfalls, home automation is a cutting-edge technology that hikes convenience, safety, energy efficiency, and fun in your daily chores. Consumers are gradually discovering that home automation, far from being the purview of only the commercial buildings and the highest-end homes, has a little something to offer to everyone.



# Home Automation – What, Why and How



UNDER ARMOUR

I DON'T  
GIVE UP.  
I GET  
UP.





# Of Moonshots and Shuttles

*Olli is ready to change the way we view transportation. From neighborhoods to campuses to urban city centers, learn how Olli is the smart, safe, sustainable option for getting around.*



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