

AUGMENTED REALITY

CURRENT TRENDS OF AUGMENTED REALITY IN INDUSTRY

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CURRENT TRENDS OF AUGMENTED REALITY IN INDUSTRY

18th NOV 2021

9.00 to 10.30 am

Speaker
Dr Ruzimi Mohamed
Founder
OZEL

Moderator
Ts. Dr. Sarina Binti Sulaiman
TIS Lecturer

Online Via
webex by CISCO

<https://bit.ly/3DUPI0Z>

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NAME OF SPEAKER:

DR. RUZIMI BIN MOHAMED @ **OZEL**
MAHMOOD, THE FOUNDER OF OZEL
SDN. BHD

DATE & TIME:

18TH NOVEMBER 2021
9.00 TO 10.30 A.M

SUMMARY OF THE TALK

This newsletter is about the Industrial Talk of Current Trends of Augmented Reality in Industry that was delivered by the Founder of Ozel & Doctor of Philosophy and Computer Science, Dr. Ruzimi Mohamed on the 18th of November 2021. During the talk, Dr. Ruzimi emphasized on the importance of Augmented Reality, Future of Augmented Reality, Types of Augmented Reality, Skills for Future Jobs and Common Job Positions in Augmented Reality

DR. RUZIMI THOUGHTS ON THE IMPORTANCE OF AUGMENTED REALITY

THE FUTURE IS THE COMBINATION OF ARTIFICIAL INTELLIGENCE AND AUGMENTED REALITY

MORE EFFICIENT IN PERFORMING HIGH-LEVEL TASK

INCREASE ENGAGEMENT AND INTERACTION WITHIN LOCAL AND ABROAD

HELP STUDENTS & WORKERS ACHIEVE ENHANCED WORKING RESULTS THROUGH THE VISUALISATION

INDUSTRIAL REVOLUTION 4.0 & AUGMENTED REALITY

Industrial Revolution 4.0 is the digital transformation of manufacturing and related industries and value creation processes.

Augmented Reality is one of the nine digital industrial technologies. Augmented reality (AR) is an enhanced version of the real physical world that is achieved through the use of digital visual elements, sound, or other sensory stimuli delivered via technology

TYPES OF AUGMENTED REALITY

- **Marker Based:** provides us more information about the object after it focuses on the recognition of objects
- **Projector Based:** appealing and interactive where light is blown onto a surface and the interaction is done by touching the projected surface with hand
- **Superimposition Based:** replacing the entire or partial view with an augmented view of the object

THE FUTURE OF AUGMENTED REALITY

2025 WOLRD'S ECONOMIC PREDICTION

- Internet related: Clothes such as QR Code design, home appliances, smartphones and internet access
- Trillion of internet based sensors, reading glasses such as Microsoft Hololens & Google Glass
- 3D Printer: Produce first automobile whereby on current day, police in Dubai have recruited a self-driving robocar and therefore there will many rides performed by sharing cars, manufacture consumer products and the first organ transplant.
- Artificial Intelligence: 30% of all audits performed on large corporations

HOT SKILLS: INDUSTRIAL REVOLUTION 4.0

Since we are heading towards the industrial revolution, there are several hot skills that is highly demanded in the future: complex, critical and creative thinking, people coordinating & management, emotional intelligence, service orientation, negotiation, & cognitive flexibility

KEY TO JOB CREATION

- Creative endeavors : scientific discovery to creative writing & entrepreneurship
- Social interaction: robots don't have the kind of emotional intelligence like humans do
- Physical dexterity and mobility: millennia of hiking, swimming & dancing gives humans extraordinary agility and physical dexterity

CHOOSE YOUR CAREER WISELY

It is advised to get in the field of data science. Focus on jobs that require skills like creativity, problem solving and connecting with people on human level. Keep in touch with the job market to get an insight of which job are in demand and its average salary. Be data savvy & learn how to use data to solve problems. Get familiar with artificial intelligence as well

REFERENCE:

- <https://www.investopedia.com/terms/a/augmented-reality.asp>
- <https://www.quytech.com/blog/type-of-augmented-reality-app/>

2025 EXPECTED REVENUE BY INDUSTRY

- Video games : \$11.6 BILLION
- Healthcare : \$6.1 BILLION
- Engineering : \$4.7 BILLION
- Live Events : \$4.1 BILLION
- Video Entertainment : \$3.2 BILLION
- Real Estate : \$2.6 BILLION
- Retail : \$1.6 BILLION
- Military : \$1.4 BILLION
- Education : \$7 MILLION

AUGMENTED REALITY IN USE CASES

In order to give a greater visualization, Augmented Reality will be used in many fields in the future: education, healthcare, appliances, JARVIS-like virtual assistance, The Metaverse whereby it is a world where people can socialize virtually, automotive industry and sporting events

POSITIONS IN AUGMENTED REALITY JOB FIELD

- Augmented Reality content developer
- Augmented Reality content strategist
- Augmented Reality user experience designer
- Designer, animator or sound artist specializing in Augmented Reality
- Augmented Reality community manager
- Augmented Reality project manager

REFLECTION

This talk helped us understand the importance of Augmented Reality & Artificial Intelligence as well as its impact can have on human life and day to day activities. Augmented Reality allows people to process the physical and digital simultaneously, eliminating the need to mentally bridge the two. This makes imagining and innovating easier for humans.



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