

INTRODUCTION AND CONTENT

In this talk, we will learning what of the important range in era digital transformation. The main focus for industrial 4.0 is contributing to the change. The concept is not the simple one because it envelop many technology and is uses in a variety different contents.

COMPONENTS OF INDUSTRIAL 4.0

- 1. AUTONOMOUS ROBOTS
- 2. AUGMENTED REALITY
- 3. CLOUD COMPUTING
- 4. INDUSTRIAL INTERNET OF THINGS
- 5. SIMULATION
- 6. BIG DATA AND ANALYTICS
- 7. ADDITIVE MANUFACTURING
- 8. CYBERSECURITY
- 9. SYSTEM INTEGRATION



- EDUCATION 4.0 IR 4.0 IN EDUCATION ARE WHEN PEOPLE BEING EDUCATE BY USING VR. MOST SCHOOL IN MALAYSIA ARE STILL STRUGGLING TO ADAPT WITH 3.0 REVOLUTION
- COMMERCE 4.0 NEWER GENERATION MORE COMFORTABLE EMBRACING THE E-COMMERCE LIKE SHOPPEE AND LAZADA. 4.0 **REVOLUTION E-COMMERCE. IT CAN STUDY OUR SHOPPING**
- TESLA 3 THIS KIND OF CAR ARE ONE OF 4.0 INDUSTRY REVOLUTION. IT CONNECTED TO THE CLOUD, AN ELECTRIC CAR, THE BATTERY CAN LAST MORE THAN 300 MONTHS, THE SPEED OF THE CAR CAN BEAT A FERRARI AND LAMBORGHINI, IT IS **FULLY AUTONOMOUS (CAN DRIVE BY ITSELF)**
- HOME NOWADAYS HOME ARE CONNECTED TO THE INTERNET. IT IS CALLED SMART HOME OR CONNECTED HOME. PEOPLE CAN CONTROL THE HOUSE WHETHER IN THE HOUSE OR REMOTELY AWAY FROM THE HOUSE. CAN PROVIDE SOME INTELLEGINCE
- NOWADAYS PEOPLE USE THESE UBER, GRAB, FOODPANDA, SHOPEE, GOOGLE, AMAZON, CONVES, AERODYNE(COMPANY THAT FOCUSING ON DRONE), TESLA





PAST JOBS

- 1. COMPUTER OPERATOR
- 2. FILM PROJECTIONIST
- 3. ICE CUTTER
- 4. LAMPLIGHTER
- 5. PRINT SETTER
- 6. RAG AND BONE MAN
- 8. TYPESETTER 9. TYPIST

- PRESENT JOBS
- 1. BIOMASS PLANT TECHNICIAN
- 2. BLOGGER
- 3. CLOUD SERVICES SPECIALIST
- 4. COMMERCIAL MARKETING SPECIALIST
- 5. GREEN FUNERAL DIRECTOR
- 6. MOBILE APP DESIGNER
- 7. SWITCHBOARD OPERATOR 7. SOCIAL MEDIA MANAGER
 - 8. WIND TURBINE 9. ZUMBA TEACHER

- FUTURE JOBS
- 1. 3D PRINTING TECHNICIAN
- 2. BIOMECHANICS SERVICE PERSON
- 3. COMPUTER VISION ENGINEER
- 4. DE-EXTINCTION ZOOLOGIST
- 5. ELECTRONIC TEXTILE DESIGNER 6. ETHICAL HACKER
- 7. INFOGRAPHIC DESIGNER
- 8. MACHINE LEARNING ENGINEER
- 9. TRANSPOOSION TECHNICIAN



SUMMARY

THE WORLD IS IN THE PROCESS OF

(IR) 4.0: PAST, PRESENT, FUTURE

APPRECIATE PRESENT AND THE CURRENT SITUATION AS WELL AS

OUR LIFE IN FUTURE. THE FIRST

MECHANICAL POWER, WHICH IS

SECOND INDUSTRIAL REVOLUTION

INVOLVES THE USE OF ELECTRICITY WHEREAS AT THE THIRD INDUSTRIAL REVOLUTION, THERE OCCURS THE BIRTH

OF PLC, MICROCONTROLLER AND SO ON. THIS IS AN ERA OF COMPUTING OR

COMMONLY KNOWN AS DIGITAL

REVOLUTION. AFTER THAT, IN FOURTH INDUSTRIAL REVOLUTION, ALL THE

THREE ELEMENTS ABOVE COME

TOGETHER AND THEN ARTIFICIAL

INTELLIGENCE (AI) IS EXPLORED. FOR

COMPONENTS OF IR 4.0.

AUTONOMOUS ROBOTS ARE INVENTED,

WHICH WOULD HELP IN REDUCING

ERRORS AND IMPROVING CYCLE TIMES.

FOR INSTANCE, THERE ARE A LOTS OF

FACTORIES ADOPTING AUTONOMOUS

ROBOT SUCH AS FACTORIES OF BMW AND TOYOTA. THEY USE SCANNERS,

MICROPHONES AND SO ON TO SENSE

AND GENERATE. THE NEXT COMPONENT

ARE CLOUD COMPUTING AND INTERNET

OF THING (IOT), WHICH ARE THE

COMPUTER SERVICES. BESIDES, THERE

ARE ALSO AUGMENTED REALITY (AR),

WHICH IS CONVENIENT TO USE IN

TOURISM FOR VIEWING THE PLACES AND SO ON. MOREOVER. BIG DATA ANALYSIS IS HELPFUL IN ANALYZE AND **GET ANSWERS OR DECISIONS FROM ALL** THE DATA GIVEN. IN FUTURE, WE **WOULD HAVE USE 5G INSTEAD OF 4G,** WHICH HAS BEEN USED CURRENTLY **BECAUSE OF THE RAPID DEVELOPMENT** IN OUR COUNTRY. 5G IS NEEDED TO **ACCELERATE THE IR 4.0 TO DELIVER** SERVICES FOR A SAFER, SUSTAINABLE AND ENRICHING COMMUNITY.

IN TODAY'S WORLD. INDUST NAL REVOLUTION (IR) 4.0: PAST, PRESENT, VOTAL ROLE IN EVERY MANKIND LIFE. IN A **FUTURE TALK WILL PLAY A PI** NAL EXAMPLE BECAUSE IN ORDER TO WAY. IT SETS AS A MOTIVAT BE A HELPING HAND TO THE SOCIETY TO **ACHIEVE A GREAT FEAT THAT** AVE COURAGE AND DETERMINATION TO MAKE LIFE EASIER ONE SHOULD ILDEST IMAGINATION OF DREAMS. FOR CREATE INVENTIONS FROM THE V **EXAMPLE, SOME THE GREATEST INVENTORS WE HAVE HAD OVER THE TIME** SUCH AS THOMAS ALVA EDISON WHO INVENTED THE PHONOGRAPH, INCANDESCENT LIGHT BULB AND NIKOLA TESLA FOR INVENTING FIRST ALTERNATING CURRENT (AC) MOTOR, TRANSMISSION TECHNOLOGY TOOK SUCH A HEFTY RISK AND HAD COURAGE TO MAKE IT HAPPEN TO CREATE A BETTER FUTURE FOR TOMORROW'S NEW GENERATION.

MOREOVER, WE GOT ANOTHER INSIGHT FROM THIS INDUSTRIAL TALK WHICH IS THAT THERE WILL BE NO LIMITS FOR IMAGINATIONS ON TECHNOLOGY. THIS IS BECAUSE TECHNOLOGY IN EVERY SECTOR HAS BEEN INCREASING RAPIDLY AND GETTING IMPROVISED DAY BY DAY. THE TECHNOLOGY WE HAD SEEN YESTERDAY IS GETTING BETTER THE FOLLOWING DAY AFTER IMPROVISATION TO EASE HUMAN'S LIVES EASIER. THIS THE KIND OF WORLD WE HAVE BEEN LIVING IN BECAUSE EVERYONE STARTING FROM FARMER TO ENTREPRENEUR ALWAYS TEND TO MAKE THEIR IMAGINATIONS POSSIBLE THROUGH INVENTIONS TO REDUCE THE HUMANS' WORKLOAD AND TO CREATE A MORE URBANIZED WORLD. THEREFORE, WE LEARNED THAT IMAGINATIONS ARE NOT THE KEY TO THE NEW TOMORROW.



