



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME TS. DR. ADAM WONG YOON KHANG

FACULTY / CENTRE FAKULTI TEKNOLOGI KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION PENSYARAH KANAN - FAKULTI TEKNOLOGI KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK

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ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2018	KEDOKTORAN FALSAFAH (PH.D)	UTM
2011	SARJANA (MASTERS)	UTM
2007	SARJANA MUDA (BACHELOR)	UNIMAP

FIELD OF INTEREST

RESEARCH INTEREST INCLUDES IN WIRELESS MANET AND CONCEPTUAL SIMULATION MODELING AND TAGUCHI OPTIMIZATION IN HYBRID OPTICAL WIRELESS COMMUNICATION.

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BEEE2333 - ANALOGUE ELECTRONIC DEVICES
2021/2022	BEET4813 - MOBILE COMMUNICATION
2020/2021	BEEE2333 - ANALOGUE ELECTRONIC DEVICES
2020/2021	BEET3403 - DIGITAL COMMUNICATION
2020/2021	BEET4813 - MOBILE COMMUNICATION
2019/2020	BEET2333 - COMMUNICATION PRINCIPLE
2019/2020	BEET3353 - TELECOMMUNICATION SYSTEM
2019/2020	BEET3403 - DIGITAL COMMUNICATION
2019/2020	BEET4813 - MOBILE COMMUNICATION
2018/2019	BEEE1303 - ENGINEERING WORKSHOP I
2018/2019	BEEI3443 - COMMUNICATION SYSTEM
2018/2019	BEET3403 - DIGITAL COMMUNICATION
2018/2019	BEET4813 - MOBILE COMMUNICATION

LIST OF GRANTS *(last 5 years)*

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2020	A NEW ROBUST MAC PROTOCOL FOR QOS PERFORMANCE IMPROVEMENT BASED ON CONGESTION CONTROL IN VANET	GERAN FRGS (NATIONAL)	63240	MAIN RESEARCHER
2020	SMART FERTIGATION SYSTEM BASED ON INTERNET OF THINGS (IOT)	SHORT TERM (UTEM)	20000	CO-RESEARCHER

2019	DEVELOPMENT OF SELF-CONFIGURE MULTIPLE DATA RATE CONTROL FOR LAST MILE MOBILE HYBRID OPTICAL WIRELESS ACCESS NETWORK	SHORT TERM (UTEM)	20000	MAIN RESEARCHER
2019	DEVELOPMENT OF SMART-SAFES USING RADIO FREQUENCY ENERGY HARVESTING	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2019	INTEGRATION OF LEAN MANUFACTURING (LM) TO SUPPORT QUALITY MANAGEMENT SYSTEM (QMS) IN AEROSPACE INDUSTRY: A CASE STUDY IN MELAKA	SHORT TERM (UTEM)	7000	CO-RESEARCHER

PUBLICATIONS (last 5 years)**JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2021	DEVELOPMENT OF PROGRAMMABLE HOME SECURITY USING GSM SYSTEM FOR EARLY PREVENTION	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH1, AZWAN AZIZ1, A. I. A. RAHMAN, SYED NAJIB SYED SALIM, MASLAN ZAINON, ZIKRI ABADI BAHARUDIN1, MUHAMMAD INAM ABBASI, AND ADAM WONG YOON KHANG
2021	INTEGRATING DRONE TECHNOLOGY IN SERVICE LEARNING FOR ENGINEERING STUDENTS	INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGIES IN LEARNING (IJET)	FATIN ALIAH PHANG, JAYSUMAN PUSPPANATHAN, NINA DIANA NAWI, NUR AMIRA ZULKIFLI, IZWYN ZULKAPRI1, FAUZAN KHAIRI CHE HARUN, ADAM WONG YOON KHANG, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, TEE KIAN SEK
2021	RESOURCE EFFICIENT FOR HYBRID FIBER-WIRELESS COMMUNICATIONS LINKS IN ACCESS NETWORKS WITH MULTI RESPONSE OPTIMIZATION ALGORITHM	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	ADAM WONG YOON KHANG, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, IDRUS S. M., JOHAR AKBAR BIN MOHAMAT GANI, WIN ADIYANSYAH INDRA AND JAYSUMAN BIN PUSPPANATHAN
2020	QUALITATIVE BASED QOS PERFORMANCE STUDY USING HYBRID ACO AND PSO ALGORITHM ROUTING IN MANET.	JOURNAL OF PHYSICS: CONFERENCE SERIES	ADAM WONG YOON KHANG, SHAMSUL J. ELIAS, NADIATULHUDA ZULKIFLI, WIN ADIYANSYAH INDRA, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, ZAHARIAH MANAP AND JOHAR AKBAR MOHAMAT GANI
2020	ROBUSTNESS METRICS FOR OPTICAL NETWORKS	INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE	NOOR AISHAH ZAINIAR, FARABI IQBAL, ASM SUPAAT, ADAM WONG YOON KHANG
2020	SELF-CONFIGURATION AND SELF-OPTIMIZATION PROCESS WITH TAGUCHI METHOD IN HYBRID OPTICAL WIRELESS NETWORK	INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE	ADAM WONG YOON KHANG, ARNIDZA RAMLI, SHAMSUL J. ELIAS, J. PUSPPANATHAN, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, FATIN HAMIMI MUSTAFA, WIN ADIYANSYAH INDRA, JOHAR AKBAR MOHAMAT GANI
2020	THE EXPERIMENTAL STUDIES OF THE AUTOMATIC CONTROL METHODS OF MAGNETIC SEPARATORS PERFORMANCE BY MAGNETIC PRODUCT	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, WIN ADIYANSYAH INDRA, ADAM WONG YOON KHANG, A K M ZAKIR HOSSAIN, VADYM SHKARUPYLO4, J. PUSPPANATHAN
2019	ANALYSIS ON TOPOLOGY OF GROUNDING SYSTEM USING BENTONITE AND COCONUT HUSK AS ADDITIVE MATERIAL	UNIVERSAL JOURNAL OF ELECTRICAL AND ELECTRONIC ENGINEERING	N. H. HALIM, M F HAIRUDDIN, S.N.M. ARSHAD, M.I.N. ISA, ZURAIMY ADZIS, ADAM WONG YOON KHANG
2019	CONGESTION CONTROL IN VEHICULAR ADHOC NETWORK: A SURVEY	INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE	SHAMSUL JAMEL ELIAS, SHAHIRAH MOHAMED HATIM, MOHAMAD YUSOF DARUS, SHAPINA ABDULLAH, JAMALUDDIN JASMIS, R. BADLISHAH AHMAD, ADAM WONG YOON KHANG
2019	DESIGN OF A CELL SELECTION MECHANISM TO MITIGATE INTERFERENCE FOR CELL-EDGE MACRO USERS IN FEMTO-MACRO HETEROGENEOUS NETWORK	BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS	SHAPINA ABDULLAH, NORASHIDAH MD. DIN, SHAMSUL J. ELIAS, ADAM WONG YOON KHANG, ROSHIDI DIN, ROSMADI BAKAR
2019	DEVELOPMENT OF SMART DUSTBIN BY USING APPS	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, ADAM WONG YOON KHANG, WIN ADIYANSYAH INDRA, VADYM SHKARUPYLO AND JAYANANTHINI JAYASUNDAR
2019	DEVELOPMENT OF VEHICLE DOOR SECURITY USING SMART TAG AND FINGERPRINT SYSTEM	INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY	JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, ADAM WONG YOON KHANG, WIN ADIYANSYAH INDRA, J. PUSPPANATHAN, VADYM SHKARUPYLO, A K M ZAKIR HOSSAIN, SARAVANAN S/O SAMINATHAN
2019	DEVELOPMENT OF VEHICLE IGNITION USING FINGERPRINT	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, WIN ADIYANSYAH INDRA, ADAM WONG YOON KHANG, VADYM SHKARUPYLO, DHANIGALETCHMI A/P P JKATISAN
2019	EFFICIENT P2P DATA DISSEMINATION IN INTEGRATED OPTICAL AND WIRELESS NETWORKS WITH TAGUCHI METHOD	TELKOMNIKA	M. A. WONG, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, SEVIA MAHDALIZA IDRUS, NADIATULHUDA ZULKIFLI, M ELSHAIKH
2019	HOMES APPLIANCES CONTROL USING BLUETOOTH	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, MOHAMED NJ, SYED NAJIB SYED SALIM, ADAM WONG YOON KHANG, WIN ADIYANSYAH INDRA, VADYM SHKARUPYLO AND CHRISTINA PELLIPUS
2019	LAST MILE MOBILE HYBRID OPTICAL WIRELESS ACCESS NETWORK ROUTING ENHANCEMENT	BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS	KHANG A.W.Y., ELIAS S.J., PUSPPANATHAN J., ZULKIFLI N., HALIM N.H., ABDULLAH S.
2019	RADIO-FREQUENCY IDENTIFICATION (RFID) ITEM FINDER USING RADIO FREQUENCY ENERGY HARVESTING	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	WIN ADIYANSYAH INDRA, ADAM WONG YOON KHANG, YAP THAI

			YUNG AND JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH
2019	TAGUCHI BASED SELF-CONFIGURE DATA RATE OPTIMIZATION AODVUU ROUTING PARAMETERS IN MANET OVER OPTICAL NETWORK PERFORMANCES	INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY	ADAM WONG YOON KHANG, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, WIN ADIYANSYAH INDRA, J. PUSPPANATHAN, SHAMSUL J. ELIAS
2018	QOS SUPPORT WITH TAGUCHI METHOD IN SIMULATION MODELING HYBRID ARCHITECTURE OF OPTICAL AND MULTI-HOP WIRELESS AD HOC NETWORKS	INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY(UAE)	M. A. WONG, SHAMSUL JAMEL ELIAS, SEVIA MAHDALIZA IDRUS, NADIATULHUZAZULKIFLI, F. IQBAL

CONFERENCE

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2020	QUALITATIVE-BASED QOS PERFORMANCE STUDY USING HYBRID ACO AND PSO ALGORITHM ROUTING IN MANET	INTERNATIONAL CONFERENCE ON TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING 2019, ICTEC 2019	ADAM WONG YOON KHANG, SHAMSUL J. ELIAS, NADIATULHUDA ZULKIFLI, WIN ADIYANSYAH INDRA, JAMIL ABEDALRAHIM JAMIL ALSAYAYDEH, ZAHARIAH MANAP AND JOHAR AKBAR MOHAMAT GANI
2020	A PLANAR SLOTTED RCS BASED UWB RFID TAG ON A PCB AND A FLEXIBLE SUBSTRATE FOR PACKAGING APPLICATION	11TH MALAYSIAN TECHNICAL UNIVERSITIES CONFERENCE ON ENGINEERING AND TECHNOLOGY, MUCET 2019	ZAKIR HOSSAIN, A.K.M., ABIDIN BIN ABD AZIZ, M.Z., KHANG, A.W.Y., INDRA, W.A.
2019	INTERDEPENDENCY IN OPTICAL NETWORKS AND POWER GRID	UTM PROCEEDINGS OF THE LIGHTWAVE COMMUNICATION RESEARCH GROUP COLLOQUIUM 2019	NOOR AISHAH ZAINIAR, FARABI IQBAL, ASM SUPAAT, ADAM WONG YOON KHANG, MUHAMMAD YUSOF MOHD NOOR AND NADIATULHUDA ZULKIFLI

BOOK, BOOK CHAPTER, OTHER PUBLICATIONS

YEAR	TITLE BOOK	TITLE CHAPTER BOOK	TYPE OF PUBLICATIONS	AUTHORS
2021	ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING AND COMPUTER SCIENCE	-	BOOK_CHAPTER	ADAM WONG YOON KHANG

PROFESSIONAL MEMBERSHIPS / LEARNED SOCIETY

YEAR	ROLE	INSTITUTION	LEVEL
2019	TEKNOLOGIS PROFESIONAL (LEMBAGA TEKNOLOGIS MALAYSIA)	LAIN-LAIN	KEBANGSAAN

POSTGRADUATE SUPERVISION *(last 5 years)*

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	NURUL FAZLEEN BINTI ABDUL RAHIM	MASTERS	MAIN SUPERVISOR	ACTIVE
2	NUR AZZURIN AFIFIE BINTI AZMAN	MASTERS	MAIN SUPERVISOR	ACTIVE

LIST OF RESEARCH AWARDS (last 5 years)

YEAR	TITLE	EXHIBITION	LEVEL	AWARD
2021	INTERACTIVE VOICE RECOGNITION BASED SMART MIRROR FOR COMMERICAL GUEST ROOM	EKSP0 PENYELIDIKAN ANTARABANGSA , UNIMAP	INTERNATIONAL	SILVER
2021	SMART MIRROR USING RASPBERRY PI FOR HOTEL INDUSTRY		FACULTY/CENTRE	GOLD
2021	DEVELOPMENT OF REAL-TIME BASED SMART ASSISTANCE INTERFACES AUDIO RECEIVER FOR BLIND PEOPLE BY USING OBJECT RECOGNITION METHOD	EKSP0 PENYELIDIKAN ANTARABANGSA , UNIMAP	INTERNATIONAL	SILVER
2021	SMART SMOKE LEVEL DETECTION FOR RUBBER STRAIN GAUGE WITH AMBIENT MONITORING	EKSP0 PENYELIDIKAN ANTARABANGSA , VIRTUAL COMPETITION BY POLITEKNIK SULTAN ABDUL HALIM MU'ADZAM SHAH	INTERNATIONAL	GOLD
2020	RUBBER STRAIN GAUGE ARDUINO DATA LOGGER PLATFORM WITH AMBIENT DETECTION	EKSP0 PENYELIDIKAN ANTARABANGSA , UITM CAWANGAN JOHOR	INTERNATIONAL	SILVER
2020	LOW COST ARDUINO-BASED AUTOMATIC AND PORTABLE SHEET CUTLER	EKSP0 PENYELIDIKAN ANTARABANGSA , UITM CAWANGAN JOHOR	INTERNATIONAL	SILVER
2019	STRAIN GAUGE MONITORING SYSTEM	EKSP0 PENYELIDIKAN ANTARABANGSA , INTERNATIONAL SYMPOSIUM ON RESEARCH IN INNOVATION AND SUSTAINABILITY- ISORIS 2019	INTERNATIONAL	OTHERS
2019	DEVELOPMENT OF ARDUINO.BASED IOT SYSTEM FOR RUBBER STRAIN MONITORING	EKSP0 PENYELIDIKAN ANTARABANGSA , MELAKA INTERNATIONAL INNOVATION EXPO 2019	INTERNATIONAL	SILVER
2019	DEVELOPMENT OF RADIO FREQUENCY ENERGY HARVESTING IN SMART SAFE WITH GSM	EKSP0 IPTA , KDU GLENMARIE CAMPUS	INTERNATIONAL	OTHERS
2019	PROTOTYPE DEVELOPMENT ON RUBBER STRAIN USING WIRELESS MOBILE APPLICATION	EKSP0 IPTA , UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH	INTERNATIONAL	SILVER

KATEGORI MAKLUMAT	PEJABAT DIRUJUK
PERSONAL INFORMATION	BAHAGIAN SUMBER MANUSIA, PEJABAT PENDAFTAR
ACADEMIC QUALIFICATON	
PROFESSIONAL MEMBERSHIP / LEARNED SOCIETY	
TEACHING EXPERIENCE	BAHAGIAN PENGURUSAN AKADEMIK, PEJABAT PENDAFTAR
<ul style="list-style-type: none"> • UNDERGRADUATES 	
<ul style="list-style-type: none"> • POSTGRADUATES 	PUSAT PENGAJIAN SISWAZAH (PPS)
POSTGRADUATE SUPERVISION	PUSAT PENGAJIAN SISWAZAH (PPS)
FIELD OF INTEREST	PUSAT PENGURUSAN PENYELIDIKAN DAN INOVASI (CRIM)
LIST OF GRANTS	
LIST OF RESEARCH AWARDS	PUSAT PENGKOMERSILAN (UCC)
INTELLECTUAL PROPERTIES	
COMMERCIALIZATION	
PUBLICATIONS	PERPUSTAKAAN LAMAN HIKMAH
CONSULTANCY	PUSAT JARINGAN INDUSTRI DAN MASYARAKAT (PJIM)