



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME DR. WIRA HIDAYAT BIN MOHD SAAD

FACULTY / CENTRE FAKULTI KEJURUTERAAN ELEKTRONIK & KEJ. KOMPUTER

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION PENSYARAH KANAN - FAKULTI KEJURUTERAAN ELEKTRONIK & KEJ. KOMPUTER

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ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2013	KEDOKTORAN FALSAFAH (PH.D)	UNIVERSITI PUTRA MALAYSIA
2007	SARJANA MUDA (BACHELOR)	UNIVERSITI PUTRA MALAYSIA

FIELD OF INTEREST

NUCLEAR IMAGING, MEDICAL IMAGE PROCESSING, EMBEDDED SYSTEMS DESIGN

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BENC3443 - MULTIMEDIA TECHNOLOGY AND APPLICATIONS
2021/2022	BENE4333 - ARTIFICIAL INTELLIGENCE
2020/2021	BENC3443 - MULTIMEDIA TECHNOLOGY AND APPLICATIONS
2020/2021	BENC4483 - COMPUTER VISION AND PATTERN RECOGNITION
2020/2021	DENG2223 - ELECTRONIC & MICROPROCESSOR FUNDAMENTALS
2019/2020	BENC3443 - MULTIMEDIA TECHNOLOGY AND APPLICATIONS
2018/2019	BENC4483 - COMPUTER VISION AND PATTERN RECOGNITION
2018/2019	BENT4733 - DIGITAL SIGNAL PROCESSING
2017/2018	BENC3443 - MULTIMEDIA TECHNOLOGY AND APPLICATIONS
2017/2018	BENC4153 - USER INTERFACE DESIGN AND PROGRAMMING
2017/2018	BENC4483 - COMPUTER VISION AND PATTERN RECOGNITION
2017/2018	BITG1233 - COMPUTER PROGRAMMING
2017/2018	DENC1223 - COMPUTER PROGRAMMING
2016/2017	BENC4153 - USER INTERFACE DESIGN AND PROGRAMMING
2016/2017	BENC4781 - COMPUTER ENGINEERING LABORATORY 4
2016/2017	BITG1233 - COMPUTER PROGRAMMING

POSTGRADUATES

SESSION	COURSE
2021/2022	MENC5013 - ADVANCED DIGITAL SIGNAL PROCESSING
2020/2021	MENC5013 - ADVANCED DIGITAL SIGNAL PROCESSING
2020/2021	MENE5543 - EMBEDDED SYSTEM DESIGN
2018/2019	MENC5533 - DISTRIBUTED AND HIGH PERFORMANCE COMPUTING
2018/2019	MENE5543 - EMBEDDED SYSTEM DESIGN
2017/2018	MENE5543 - EMBEDDED SYSTEM DESIGN
2016/2017	MENE5543 - EMBEDDED SYSTEM DESIGN

LIST OF GRANTS (last 5 years)

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2021	NEW ALGORITHM OF HIGH ACCURACY PANOPTIC SEGMENTATION ON THE OFF-ROAD STEREO VISUAL SCENE OF ANUNMANNED GROUND VEHICLE.	GERAN FRGS (NATIONAL)	115500	MAIN RESEARCHER
2020	CILI-PADI PICKING MECHANISM USING DELTA CONCEPT ROBOTIC ARM WITH VISION GUIDED TRACKING SYSTEM	SHORT TERM (UTEM)	20000	MAIN RESEARCHER
2020	KAJIAN DAN PENERBITAN BUKUCFPC3.0 KOMPETENSI KEPIMPINAN CEO@FACULTY PROGRAMME 2.0 MUSIM KETIGA	GERAN KHAS (NATIONAL)	25200	CO-RESEARCHER
2019	FEATURE BASED ENHANCEMENT METHOD TO REDUCE BLUR FACE FRONTALIZATION FOR BETTER DETECTION IN UNCONSTRAINED IMAGES	GERAN FRGS (NATIONAL)	65300	CO-RESEARCHER
2019	DESIGN AND DEVELOPMENT OF AUTONOMOUS PESTICIDE SPRAYER FOR CHILI FERTIGATION FARM	GERAN INDUSTRI (INDUSTRY)	30000	CO-RESEARCHER

PUBLICATIONS (last 5 years)**JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2019	AUTOMATED BRAIN TUMOR SEGMENTATION AND CLASSIFICATION FOR MRI ANALYSIS SYSTEM	INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE	NORHASHIMAH MOHD SAAD, MUHAMAD FAIZAL YAAKUB, ABDUL RAHIM ABDULLAH, NOR SHAHIRAH MOHD NOOR, NUR AZMINA ZAINAL, WIRA HIDAYAT MOHD SAAD
2019	LAPLACE CIRCUIT SOLVER: A TACTILE-BASED EDUCATIONAL ELECTRONIC BOARD SIMULATOR FOR PRODUCING ELECTRICAL CIRCUIT'S LAPLACE TRANSFORM EQUATION	INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING	MOHD SAFIRIN KARIS, AMAR FAIZ ZAINAL ABIDIN, NURUL ZARIRAH NIZAM, WIRA HIDAYAT MOHD SAAD, NURSABILLILAH MOHD ALI, AHMAD SAYUTHI MOHAMAD SHOKRI
2018	ANALYZE OF PROCESS PARAMETER VARIANCE IN 19NM WSI2/TIO2 NMOS DEVICE USING 2K-FACTORIAL DESIGN	JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING	F.SALEHUDDIN, AMEER F.ROSLAN, A.E.ZAILAN, K.E.KAHARUDIN, A.S.M.ZAIN, AFIFAH MAHERAN A.H., A.R.HANIM, H.HAZURA, S.K.IDRIS, WIRA HIDAYAT MOHD SAAD
2018	CAUTIONARY SIGN ANALYSIS OF TRAFFIC SIGN DATA SET USING SUPERVISED SPIKING NEURON TECHNIQUE	INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY	MOHD SAFIRIN KARIS, NURSABILLILAH MOHD ALI1, NUR AISYAH ABDUL GHAFOR, MUHAMAD AIZUDDIN AKMAL CHE JUSOH1, NURASMIZA SELAMAT, WIRA HIDAYAT MOHD SAAD, KAMARU ADZHA KADIRAN, AMAR FAIZ ZAINAL ABIDIN, ZAIRI ISMAEL RIZMAN
2018	GUIDE SIGN ANALYSIS OF TRAFFIC SIGN DATA-SET USING SUPERVISED SPIKING NEURON TECHNIQUE	INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY	MOHD SAFIRIN KARIS1, NURSABILLILAH MOHD ALI, MOHD AZAMUDDIN ALI, MUHAMAD RAIMI SADIQ SAMSUDIN, NURASMIZA SELAMAT, WIRA HIDAYAT MOHD SAAD, AMAR FAIZ ZAINAL ABIDIN, ZAIRI ISMAEL RIZMAN
2018	IMPLEMENTATION OF CONTINUOUS WEARABLE LOW POWER BLOOD GLUCOSE LEVEL DETECTION USING GSR SENSOR	JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING	WIRA HIDAYAT BIN MOHD SAAD, MUHD. SHAH JEHAN ABD. RAZAK, TAN YUN SHENG, NURUL AKMAL BINTI ABD SALAM, FAUZIYAH BTE SALEHUDDIN1, WONG YAN CHIEW
2018	REPETITIVE ACTIVITY COUNTER ESTIMATION TECHNIQUE ON THE ACCELERATION DATA	JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING	SHOKRI A.S.B.M., SAAD W.H.B.M., MUN L.G., KAMARUZAMAN N.A.B., AZIZ S.A.B.C.
2018	WARNING SIGN ANALYSIS OF TRAFFIC SIGN DATA-SET USING SUPERVISED SPIKING NEURON TECHNIQUE	INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY	KARIS M.S., ALI N.M., AZAHAR M.I., SHAARI S.N., SELAMAT N., SAAD W.H.M., ABIDIN A.F.Z., KADIRAN K.A., RIZMAN Z.I.

POSTGRADUATE SUPERVISION *(last 5 years)*

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	KHAIRUL MUZZAMMIL BIN SAIPULLAH	DOCTORATE	MAIN SUPERVISOR	ACTIVE
2	NORLIANA BINTI AZHAR	MASTERS	MAIN SUPERVISOR	GRADUATED (2021)
3	MUHAMAD MARZUKI BIN PIRAMLI	MASTERS	CO-SUPERVISOR	GRADUATED (2020)
4	NURUL AKMAL BINTI ABD SALAM	MASTERS	MAIN SUPERVISOR	GRADUATED (2019)
5	MUHAMMAD ZAIM BIN MOHD ZAIMI	MASTERS	CO-SUPERVISOR	ACTIVE
6	NG YONG ANN	MASTERS	MAIN SUPERVISOR	ACTIVE
7	WAN AZAMUDIN BIN WAN ZAINI	MASTERS	CO-SUPERVISOR	ACTIVE
8	MOHD ASYRAF BIN ZULKALNAIN	MASTERS	CO-SUPERVISOR	ACTIVE
9	NURUL NADHEERAH BINTI MOHD ZAMBERI	MASTERS	MAIN SUPERVISOR	ACTIVE

INTELLECTUAL PROPERTIES

YEAR	INVENTION NAME	TYPE
2020	CHILI AND ITS FLOWER DETECTOR APPLICATION USING DEEP LEARNING APPROACH	COPYRIGHT

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)