



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME DR. AMRIK SINGH A/L PHUMAN SINGH

FACULTY / CENTRE FAKULTI KEJURUTERAAN MEKANIKA

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION PENYELARAS - PEJABAT PENOLONG NAIB CANSOLOR (JARINGAN INDUSTRI & MASYARAKAT)

EMAIL amriksingh@utem.edu.my



ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2019	KEDOKTORAN FALSAFAH (PH.D)	KYOTO UNIVERSITY
2012	SARJANA (MASTERS)	UNIVERSITI TEKNOLOGI MALAYSIA
2009	SARJANA MUDA KEPUJIAN(BACHELOR HONS)	UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FIELD OF INTEREST

AUTONOMOUS COLLISION AVOIDANCE

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BMMF2114 - DRIVETRAIN MAINTENANCE
2020/2021	BMCG1113 - STATICS
2020/2021	BMCG3011 - MECHANICAL ENGINEERING LABORATORY III
2020/2021	BMCG4913 - VEHICLE DYNAMICS
2020/2021	BMCG4953 - VEHICLE SYSTEM MODELLING AND SIMULATION
2019/2020	BMCG2011 - MECHANICAL ENGINEERING LABORATORY II
2019/2020	BMCG3223 - CONTROL ENGINEERING
2019/2020	BMCG4913 - VEHICLE DYNAMICS
2019/2020	BMCK1113 - ENGINEERING MECHANICS
2019/2020	BMFG1313 - ENGINEERING MATHEMATICS 1
2019/2020	DMCM2713 - DYNAMICS
2018/2019	BMCG3011 - MECHANICAL ENGINEERING LABORATORY III
2018/2019	BMCG4913 - VEHICLE DYNAMICS
2018/2019	DMCM2713 - DYNAMICS

POSTGRADUATES

SESSION	COURSE
2020/2021	MMCA5623 - VEHICLE ELECTRICAL AND ELECTRONICS SYSTEM
2020/2021	MMCA5633 - INTELLIGENT VEHICLE CONTROL
2019/2020	MMCA5623 - VEHICLE ELECTRICAL AND ELECTRONICS SYSTEM
2018/2019	MMCA5623 - VEHICLE ELECTRICAL AND ELECTRONICS SYSTEM
2018/2019	MMCV5663 - ADVANCED VEHICLE DYNAMIC

LIST OF GRANTS (last 5 years)

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2021	CORRELATION ANALYSIS BETWEEN DRIVER RISK FIELD AND DRIVER STEERING RESPONSE DURING OBSTACLE AVOIDANCE TASK IN AN ON-ROAD AND DRIVING SIMULATOR.	GERAN FRGS (NATIONAL)	139150	CO-RESEARCHER
2020	AUTONOMOUS COLLISION AVOIDANCE WITH ONCOMING VEHICLE IN OVERTAKING MANEUVER USING OPTIMAL CONTROL THEORY	GERAN FRGS (NATIONAL)	69820	MAIN RESEARCHER
2020	ANALYSIS OF AUTONOMOUS COLLISION AVOIDANCE IN EMERGENCY LANE CHANGE CONSIDERING VEHICLE IN THE NEIGHBORING LANE	GERAN ANTARABANGSA (INTERNATIONAL)	11500	MAIN RESEARCHER
2020	MULTIPLE CONSTRAINTS AUTONOMOUS GUIDANCE FOR SMART PESTICIDE ROVER SYSTEM (SPRS)	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2020	MALAYSIAN ACCEPTANCE ON AUTONOMOUS VEHICLE SAFETY SYSTEM IN RELATION TO PURCHASE INTENTION: A STRUCTURAL EQUATION MODELING APPROACH	SHORT TERM (UTEM)	7000	CO-RESEARCHER

PUBLICATIONS *(last 5 years)***JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2021	TRAJECTORY TRACKING AND INTEGRATED CHASSIS CONTROL FOR OBSTACLE AVOIDANCE WITH MINIMUM JERK	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	AMRIK SINGH PHUMAN SINGH; OSAMU NISHIHARA
2020	MINIMUM RESULTANT VEHICLE FORCE OPTIMAL STATE FEEDBACK CONTROL FOR OBSTACLE AVOIDANCE	IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY	AMRIK SINGH PHUMAN SINGH, OSAMU NISHIHARA
2018	NONDIMENSIONALIZED UNIVARIATE EQUATION CHARACTERIZING OPTIMAL STATE FEEDBACK CONTROL FOR COLLISION AVOIDANCE	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	AMRIK SINGH PHUMAN SINGH, OSAMU NISHIHARA

CONFERENCE

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2020	FUZZY LOGIC BASED ADAPTIVE CRUISE CONTROL FOR ELECTRIC VEHICLES	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	ABDUL RAZAK NAINA MOHAMED, AMRIK SINGH PHUMAN SINGH
2020	LANE CHANGE AND STOPPING MANEUVERS FOR EMERGENCY OBSTACLE AVOIDANCE	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	AMRIK SINGH PHUMAN SINGH, AZMA PUTRA, KHAIRIL ANWAR ABU KASSIM
2019	COMPARISON OF MATHEMATICAL MODELS FOR VERTICAL TIRE LOAD ESTIMATION	6TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'19)	AMRIK SINGH PHUMAN SINGH; INTAN ZAURAH MAT DARUS
2017	TRAJECTORY GENERATION AND TRACKING USING INTEGRATED CONTROL OF 4WS AND DYC FOR MINIMUM JERK OBSTACLE AVOIDANCE	2017 4TH INTERNATIONAL SYMPOSIUM ON FUTURE ACTIVE SAFETY TECHNOLOGY TOWARDS ZERO-TRAFFIC-ACCIDENTS (FAST-ZERO)	AMRIK SINGH PHUMAN SINGH, OSAMU NISHIHARA

POSTGRADUATE SUPERVISION *(last 5 years)*

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	ADAM PUAH LEONG ZHIN	MASTERS	MAIN SUPERVISOR	ACTIVE

STAFF PROFILE

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)