

List of Student-Supervisor Assignment for MKEH 1814 Project 1 (20212022-1)

Program: M. Eng (Electrical – Computer & Microelectronic Systems) Main Campus Johor Baru

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Program: M. Eng (Electrical – Computer & Microelectronic Systems) Off Campus Pulau Pinang

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LIST OF TITLES

Title Code	Title
MEL2122-01-01	Object Character Recognition (OCR) for Automatic Labelling of Pharmaceutical Products
MEL2122-01-03	Applying Artificial Intelligence to Classify the Cracked Concrete Surface Detection Based on Image Processing
MEL2122-01-05	Topic in Semiconductor Material Engineering and Modelling
MEL2122-01-06	Temporal Convolutional Networks for Sound Event Recognition on Mobile Devices
MEL2122-01-07	Automatic recognition of bird individuals using Siamese Networks
MEL2122-01-09	Interactive Virtual Reality Game-Based Rehabilitation for Cerebral Palsy Children Using Kinect
MEL2122-01-15	N-gram Feature Extraction using FPGA Implementation
MEL2122-01-18	Data analytics and machine learning for fruit ripeness detection
MEL2122-01-20	Non-invasive glucose monitoring system
MEL2122-01-21	Performance Evaluation of Active Filter Based on Nanomaterial
MEL2122-01-22	obfuscated computer malware classification based on significant opcode
MEL2122-01-33	Virtual Hardware Laboratory for Remote FPGA Experiments on Real Hardware
MEL2122-01-35	Mouth position and status detection using CNN for feeding paralyzed people
MEL2122-01-49	Simulation and Analysis of Nanosheet Transistor Logic
MEL2122-01-50	CMOS Low Noise Analog Front-End Design for Multi-Lead Electrocardiogram
MEL2122-01-53	Behaviour analysis, incidence tracking or audio tracking from surveillance video streaming
MEL2122-01-54	Characterization of variable capacitor
MEL2122-01-57	Cache Coherent Heterogeneous Manycore SoC
MEL2122-01-60	Object Detection with Deep Learning
MEL2122-01-61	Fake News Detection
MEL2122-01-62	Facial recognition to detect mood and recommend songs
MEL2122-01-64	Reliability Analysis of Multi-Bridge Channel Field Effect Transistor (MBCFET)
MEL2122-01-66	Study Of time-dependent dielectric breakdown (TDDB) in 15nm Junctionless FinFET
MEL2122-01-67	March (5n) FSM-Based Memory Built-In Self-Test (MBIST) Architecture
MEL2122-01-68	Wirelength Estimation in VLSI Cell Placement using Machine Learning Techniques
MEL2122-01-70	High-level Synthesis and SW/HW Co-Design of VLSI Cell Placement Algorithm
MEL2122-01-73	Dynamic ECG Features Moduled by Natural Frequency
MEL2122-01-74	Silver Printed Electrode on Poly-Imide (PI) Film and Polyethylene Naphthalate (PEN) Film for ECG Monitoring Device
MEL2122-01-75	Graphene based Sensor for Electromyogram Acquisition System
MEL2122-01-77	Performance Analysis of a Planar Sensor ISFET
MEL2122-01-78	Modelling and Simulation of Nano Biological Sensitive Field-Effect Transistor (Nano Bio- FET) and Its Application
MEL2122-01-79	Simulation of in-Memory Logic Circuit Based on Self-Rectifying Memristor
MEL2122-01-80	Simulation of in-Memory Logic Circuit Based on Probabilistic Memristor
MEL2122-01-82	16×2 Geiger Mode Photon Counter Array in 130 nm CMOS Process
MEL2122-01-83	A built-in self-test module for 16-bit parallel photon counting
MEL2122-01-85	Amplification Scheme for Avalanche photodiode in low voltage CMOS process for LiDar application
MEL2122-01-87	Video inference with Intel VNNI (+SGX)
MEL2122-01-88	Multi-core 16-bit CPUs for PLC Processor
MEL2122-01-92	Vision Transformer for Chest X-ray Classification
MEL2122-01-93	Multicore Blockchain Accelerator for Power-Constrained Devices in Securing Decentralized Networks
MEL2122-01-94	ASIC implementation of Low Latency Montgomery Modular Exponentiation
MEL2122-01-96	ASIC Implementation of IIR filter using Residue Number System in 180nm CMOS
MEL2122-01-97	ASIC Implementation of FIR filter using Residue Number System in 180nm CMOS

Please discuss with your supervisor if your title is remarked as N/A