



# NANO SCIENTIFIC RESEARCH CENTRE

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## M-Tech ECE Project List 2017-18

<b>ARM PROCESSOR(9/11/CORTEX)</b>		
<b>PROJECTNO</b>	<b>PROJECT NAME</b>	<b>YEAR</b>
NEM01.	Embedded control system for smart walking Assistance device	2017
NEM02.	A Framework for Authentication in Cloud-based IP Traceback	2017
NEM03.	Automated Moving Object Classification in Wireless Multimedia Sensor Networks	2017
NEM04.	Privacy Leakage of Physical Activity Levels in Wireless Embedded Wearable Systems	2017
NEM05.	Towards Pervasive Augmented Reality	2017
NEM06	On Reliability Management of Energy-Aware Real-Time Systems through Task Replication	2017
NEM07.	An RFID based Smartphone Proximity Absence Alert System	2017
NEM08.	Testing Autonomous Vehicle Software in the Virtual Prototyping Environment	2017
NEM09.	Online Fault Diagnosis of Motor Bearing via Stochastic-Resonance-Based Adaptive Filter in an Embedded System	2017
NEM10.	Traffic Sign Recognition via Multi-Modal Tree-Structure Embedded Multi-Task Learning	2017
NEM11.	Object Detection Based Video Compression for Wireless Surveillance Systems	2017
NEM12.	A Micro-GA Embedded PSO Feature Selection Approach to Intelligent Facial Emotion Recognition	2017

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NEM13.	Master Print: Exploring the Vulnerability of Partial Fingerprint-based Authentication Systems	2017
NEM14.	Performance Evaluation of Network-on-Chip Based H.264 Video Decoders via Full System Simulation	2017
NEM15.	An Intelligent Driver Alerting System for Real-time Range Indicator Embedded in Electric Vehicles	2017
NEM16.	Sensor Fusion-Based Low-Cost Vehicle Localization System for Complex Urban Environments	2017
NEM17.	Low-Cost Wireless Monitoring and Decision Support for Water Saving in Agriculture	2017
NEM18.	Towards an Energy-Efficient Anomaly-Based Intrusion Detection Engine for Embedded Systems	2017
NEM19.	Embedding Vision-based Advanced Driver Assistance Systems: a Survey	2017
NEM20.	Implementation and Evaluation of Wireless Networked Control Systems using Modbus	2017
NEM21.	Memory-Aware Embedded Control Systems Design	2017
NEM22.	Resource Consumption Cost Minimization of Reliable Parallel Applications on Heterogeneous Embedded Systems	2017

PROJECTNO	PROJECT NAME	YEAR
EM01	Efficient Storage of Multi-Sensor Object-Tracking Data	2016(T)
EM02	An Internet-of-Things Enabled Connected Navigation System for Urban Bus Riders	2016(T)
EM03	Local-Gravity-Face (LG-face) for Illumination-Invariant and Heterogeneous Face Recognition	2016(T)
EM04	SteganoPIN: Two-Faced Human–Machine Interface for Practical Enforcement of PIN Entry Security	2016(T)
EM05	Energy-Centered and QoS-Aware Services Selection for Internet of Things	2016(T)
EM06	Air-Writing Recognition—Part I: Modelling and Recognition of Characters, Words, and Connecting Motions	2016(T)
EM07	Intelligent Device-to-Device Communication in the Internet of Things	2016(T)
EM08	Selective gray-coded bit-plane based low-complexity motion estimation and its hardware architecture	2016(T)
EM09	Reversible Data Hiding in Encrypted Images by Reversible Image Transformation	2016(T)
EM10	A General Real-Time Control Approach of Intrusion Response for Industrial Automation Systems	2016(T)
EM11	Evaluation of Key-point Descriptors Applied in the Pedestrian Detection in Low Quality Images	2016(T)
EM12	Real-Time SURF-Based Video Stabilization System for an FPGA-Driven Mobile Robot	2016(T)
EM13	Low-Power Wearable ECG Monitoring System for Multiple-Patient Remote Monitoring	2016(T)



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EM14	Internet of Things Session Management Over LTE— Balancing Signal Load, Power, and Delay	2016(T)
EM15	Using Smart Edge IoT Devices for Safer, Rapid Response With Industry IoT Control Operations	2016(T)
EM16	Wearable Camera- and Accelerometer-Based Fall Detection on Portable Devices	2016(T)
EM17	Distributed Secret Sharing Approach With Cheater Prevention Based on QR Code	2016(T)
EM18	Accessible educational digital book on tablets for people with visual impairment	2016(T)
EM19	Vegas Over Access Point: Making Room for Thin Client Game Systems in a Wireless Home	2016(T)
EM20	Non-intrusive appliance load monitoring for smart homes: recent advances and future issues	2016(T)
EM21	Transductive People Tracking in Unconstrained Surveillance	2016(T)
EM22	A Blind-Zone Detection Method Using a Rear-Mounted Fish- eye Camera With Combination of Vehicle Detection Methods	2016(T)
EM23	Automatic Parking Space Detection and Tracking for Underground and Indoor Environments	2016(T)
EM24	Secure firmware validation and update for consumer devices in home networking	2016(T)
EM25	Cloud-Assisted IoT-Based SCADA Systems Security: A Review of the State of the Art and Future Challenges	2016(T)
EM26	Connected Component Model for Multi-Object Tracking	2016(T)
EM27	Illuminant-Based Transformed Spaces for Image Forensics	2016(T)

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EM28	Real-Time Lexicon-Free Scene Text Localization and Recognition	2016(T)
EM29	On-Road Vehicle Detection and Tracking Using MMW Radar and Mono-vision Fusion	2016(T)
EM30	Adaptive Energy-Oriented Multi task Allocation in Smart Camera Networks	2016(T)