

List of Collaborative Funded Projects

(R1:R23)

Project Number	Project Title	Industrial Partner	Academic Partner
1	Security System Based on Human Iris Structure	The Engineering Office for Integrated Projects	Cairo University
2	Instructional Video Content Searching Indexing through Audio Signal Analysis With Arabic Language Support	No Industrial Partner	Cairo University
3	E-Stock Market Consultant	Egytec Engineering Co.	Cairo University
4	Medical Diagnosis System for Endemic Using Self-Organizing Data-Mining Technology	No Industrial Partner	Assiut University
5	Miniature MEMS Spectrometer	Si-Ware Systems	Ain Shams University
6	Virtual Tutor	The Engineering Company for Digital Systems Development	Cairo University
7	Gray Images and Movies Computer-Based Coloring	No Industrial Partner	Menofia University
8	Enhancing The Capabilities of MS Project through An Integrated Tool Box Kit	ICT Professional Services	El Zakazik University
9	Web-Based Management System for Power Meter Measurements	Edge Technology	Cairo University
10	Advanced Platform for Processing Medical Images of the Heart	Diagnosoft Egypt	Nile University
11	DNA Profiling System and Biomedical Applications	Data Management Systems	Ain Shams University
12	RFID-Based Hospital Positioning System	Crescent Technologies Inc.	Cairo University
13	Intelligent Information Discovery & Processing System	HARF Company	Ain Shams University
14	Universal Ethernet WIFI Enabled RFID Read/Write transceiver	Alfa Electronics	Assiut University
15	Clear Vision: Interactive Visualization Tools for Business Intelligence	Microtech	French University
16	A Design Assistant System for Architects	No Industrial Partner	Alexandria University
17	Design and Implementation of Online Secure Data and Voice Integrated System	No Industrial Partner	National Institute of Laser Enhanced Science
18	Hardware-Software Massively Parallel Full Precision	Academy Company for Communications &	Arab Academy For Science,

	Analog Simulation Engine	Information Technology	Technology & Maritime Transport
19	Quality Assurance Management System	Vertika	Cairo University
20	Valuable Discovery from Hyper-Spectral Images	No Industrial Partner	Arab Academy For Science, Technology & Maritime Transport
21	Compact Front-End Components for Wireless Networks	No Industrial Partner	Ain Shams University
22	Human Identification Using ECG Signal	No Industrial Partner	Assiut University
23	Implementation of Hardware Digital Image and Video Coder and Decoders	No Industrial Partner	German University in Cairo
24	Ultra Low Power Bluetooth Transceiver Chip	Silicon Vision	Nile University
25	High-End 4D Ultra Sound Imaging System	International Biomedical Engineering Technologies	Cairo University
26	Design and Implementation of the Physical Layer of the LTE Mobile Communication System with Beam-forming Antenna System	Pyramid Tech	Alexandria University
27	Design and Implementation of DVB-T Solution	Varkon Semiconductors	Cairo University
28	Arabic Search Engine	COLTEC Corporation	Ain Shams University
29	Online Handwriting Arabic Character Recognition	Gama Technology	Cairo University
30	Infrastructure Bridges Information Modeling	BIM Engineering Solutions	Nile University
31	Designing a Computer Aided Detection System for Breast Cancer Detection	MESC for Research & Development	Helwan University
32	An Innovative Hotel Revenue Management System	Comsys Software	Cairo University
33	A Product for Arabic Optical Character Recognition	The Engineering Company for Digital Systems Development	Cairo University
34	Adaptive Power Management for Portable Wireless Applications	No Industrial Partner	Cairo University
35	TraffiSense: An Integrated Visual Sensing System for Advanced Traffic Management	INOTEK System	Nile University
36	Sentiment Analysis and Opinion Mining of the Arabic Web	Link Development	American University in Cairo
37	Prototyping Metamaterial Antennas	El-Nady Company	Ain Shams University
38	Kids Stories Teller E-Reader (Al Rawy)	Blue Com	Ain Shams University
39	Information Theoretic Cyber Security for Emerging	Smartec Group	Nile University

	Wireless Networks		
40	Crystal-Less LC-Based Reference Clock	Si-Ware Systems	Ain Shams University
41	MEMS Based Timing Chips for IT/Mobile Applications	MEMS Vision LLC	Ain Shams University
42	Design and Implementation of Low-cost Ladar System for Crash Avoidance	3DI, Inc. Company	American University in Cairo
43	Software Quality Control Automation Tool Suite	Unisoft	Alexandria University
44	Commercialization of Decimal H/W Acceleration Technology for Greener Financial Computation	SilMinds,LLC	Cairo University
45	Soft Lock Smart Card Operating System	SoftLock	Ain Shams University
46	An Indoor-Outdoor Augmented Reality World Browser	A - Tech Group	German University in Cairo
47	Tool for Extensive Management and Performance Optimization (TEMPO) for 3G	Vodafone Egypt	Cairo University
48	Off-line Arabic Machine Printed Optical Character Recognition for Mobile Devices	CIT Mobidiv	Ain Shams University
49	MEMS Optical Coherence Tomography Module	Si-Ware Systems	Ain Shams University
50	Proactive Content Delivery for Mobile Networks	Smartec Group	Nile University
51	Web of Objects	NMATec and Smartec Group	Cairo University
52	Cloud-based Virtual Lab System	Cloud Niners	Mansoura University
53	A Real-time Facial Recognition Framework on Mobile Phones Using Embedded GPUs	VIMOV	Egypt-Japan University of Science and Technology
54	Development of a Cost Effective Crop Monitoring with Accurate Control for Intelligent Irrigation Systems	Business Link	Egypt-Japan University of Science and Technology
55	Integrated Wireless Indoor Planning and Optimization Tool for 3G/LTE Networks	Vodafone Egypt	German University in Cairo
56	Nerve Locator Design Enhancement, Manufacturing and CE Marking	AI - Manar	Cairo University
57	Easi Clouds	IT - Worx	Cairo University and Nile University
58	Targeting Mutated P53 for New Drug Design	No Industrial Partner	Egypt-Japan University of Science and Technology
59	Cloud-Based Platform for Advanced Processing of Cardiac Imaging	Diagnosoft Egypt	Cairo University
60	Originality Analyzer for Arabic Text	No Industrial Partner	Ain Shams University
61	Arabic Sign Language Translator (ASLT)	Business and Commercial House	Ain Shams University
62	ARTS: An Accurate and Reliable Traffic Estimation	Wireless Stars	Egypt-Japan University of

	System		Science and Technology
63	A Fully Integrated Silicon IP for Wireless Zigbee Applications	Silicon Vision	American University in Cairo
64	Energy Harvesting for Self-Powered Wireless Tire Pressure Monitoring System	Smartec Group	American University in Cairo
65	Social Media Analytics	No Industrial Partner	Cairo University
66	DecoAR : An Indoor-Based Augmented Reality Solution for Interior Design and Real Estate Marketing	ITQAN for Smart Solutions	Alexandria University
67	eNAV: Integrated Real time Navigation and Management System for Heavy Vehicles	Softec International	German University in Cairo
68	Design and Implementation of LTE Solution	El Wasiela	Cairo University
69	Large Vocabulary Arabic Handwriting Recognition System	TAYA IT	Cairo University
70	Photonics Integrated Circuits Verification Tool	No Industrial Partner	American University in Cairo
71	Design of energy efficient Embedded SRAM Memory and Standard Cells for Ultra-low Voltage Applications	No Industrial Partner	Ain Shams University
72	HDMI 2.0 Verification IP	Boost Valley	Ain Shams University
73	Vehicle Detection and Tracking Using Quadrotors	GTT	Egypt-Japan University of Science and Technology
74	Multi-Source Energy Harvesting for Wireless Sensor Networks	No Industrial Partner	Cairo University
75	Automatic Early Detection of Mastitis Disease in Cows	Farminal	Cairo University
76	Brain/Computer-Interface for Disabled People	Healthy-It Company	Ain Shams university
77	A Microfluidic Platform for Liver Cancer Cells Detection	Sola for alternative energy systems	Zewail City of Science and Technology
78	Solar Panel Characterizer	Sola for alternative energy systems	Zewail city for science and technology
79	Low-Power 12-Gbps Multi-Standard SERDES PHY	Mipex	Ain Shams University
80	Cloud-based Teleradiology for Rural Areas	Alexandria for programming	Alexandria University
81	Nano-Enriched, Autonomous, and Trustworthy Sensing Framework for Water-Pollution Detection (ARP)	Pulse	Alexandria University

82	Fully Integrated Weather Station Chips for Smart Phones & Tablets (PDP)	MEMS Vision LLC	Ain Shams University
83	A mm-Wave Transceiver for Medical Imaging Applications (PRP)	No Industrial Partner	Cairo University
84	Speeding up Fast Fourier Transform (PRP)	No Industrial Partner	Cairo University
85	SEOUL (Sustainable & Environment Friendly Optimizer for Urban Landscape) (ARP)	Smart Wave Technologies	American University in Cairo
86	Mobile Based Jaundice Meter (ARP)	Biobusiness	Cairo University
87	Blink! A Smartphone based Automatic Accident Detection and Notification System (ARP)	BenaIT	Egypt-Japan University of Science and Technology
88	Indoor Positioning System based on Mobile Crowd Sensing (PRP)	Vodafone Egypt	Cairo University
89	Ultrasound Elastography Add-on Module for Characterizing Liver Tissue (PRP)	Nebras Technology	Cairo University
90	Navirize: A Calibration-free Accurate Indoor Positioning System for Realistic Environments (PDP)	Fixed Solution	Egypt-Japan University of Science and Technology
91	Inertial Stabilization Platform Product Development (PDP)	Si-Ware Systems	Cairo University
92	Software Factory Approach for knowledge-based HER Systems (ARP)	Accorpa	Alexandria University
93	Citrus Fruits Grading System Based on Machine Vision (PRP)	No Industrial Partner	Egypt-Japan University of Science and Technology

94	Enhanced Source of Entangled Photons for applications in Quantum Encryption (PRP)	No Industrial Partner	Zewail City of Science and Technology
95	Arabic Sign Language Translator (PDP)	Business Commercial House	Ain Shams University
96	Active Implantable Neural Interface Platform (ARP)	NOVELA Inc.	Cairo University
97	Towards smart Grids: Design and Development of Energy Efficient Smart Home (ARP)	Technoenergy for Electronic Industries and Advanced Lighting	Alexandria University
98	CANTrack (ARP)	Brightskies Technologies	Cairo University
99	Optimized Implementation of Tuning Mechanisms in Reconfigurable RF Resonators for Advanced Wireless Systems (PRP)	NOVELA Inc.	The British University in Cairo
100	Development of Touch Screen Platform based on Carbon Nanostructures (PRP)	No Industrial Partner	Egypt Nanotechnology Center – Cairo University
101	Automatic Arabic Sign language recognition from RGBD data (PRP)	The Engineering Company for Digital Systems Development	Egypt-Japan University of Science and Technology
102	Nano-Composite Anode for High Performance Li-Ion Batteries (PRP)	No Industrial Partner	Egypt Nanotechnology Center – Cairo University
103	IVISIA : Intelligent Video IP Surveillance Integrated Analytics (PDP)	AvidBeam	Cairo University
104	Complete System for Energy Management Including Renewable (ARP)	TieTec	Cairo University
105	Locally-developed Wireless Sensor Network Modules for Smart Internet of Things Applications (PRP)	No Industrial Partner	American University in Cairo
106	Low-Cost Attitude Determination In Nanosatellites (PRP)	No Industrial Partner	American University in Cairo
107	Hydrocarbon Production Optimization Computer-Assisted Decision (PRP)	APEX	French University
108	SIWMS: Smart Irrigation Water Management System (ARP)	SpimeSenseLabs	Egypt-Japan University of Science and Technology
109	KetApp: Books Supercharged (ARP)	Dashsoft	Helwan University

110	Social Media Analytics for Arabic Dialects (ARP)	AlKhawarizmy Software	Cairo University
111	Developing Content Based Retrieval system for Dermatology Image Databases (PRP)	No Industrial Partner	Nile University
112	Analyzing Trends of Discussion Topics in Community Question Answering Services (PRP)	No Industrial Partner	Cairo University
113	Smart Droplet: An Enabler for Fog Networks (PRP)	No Industrial Partner	Cairo University
114	An Innovative Optimization Framework for a High Frequency Trading Tool for Stock Markets (PRP)	No Industrial Partner	Cairo University
115	Self-Powered FPGA for rapid prototyping for Wireless Sensor Nodes (WSNs) (PRP)	Sola Company	Zewail City of Science and Technology
116	BLE MANET CAD Platform For IoT (PDP)	Qoudra	Helwan University
117	POTOO: A Low-Power 12-Gbps Multi-Standard SERDES PHY (ARP)	Mipex	Ain Shams University
118	Automatic Malfunction Analysis (AMAN) (ARP)	PiTechnologies	Banha University
119	Automatic Crowd Scene Analysis and Anomaly Detection From Video Surveillance Cameras (PRP)	No Industrial Partner	Egypt-Japan University of Science and Technology
120	Detecting Emotional Tone and Sentiment Targets in Arabic Tweets (PRP)	No Industrial Partner	Nile University
121	PCB Inspection Using Intelligent Analysis of Thermograms (PRP)	No Industrial Partner	Cairo University
122	A High Performance Bioinformatics Software Package for Pathogen Detection and Virulence Elements Comprehension (PDVEC) (PRP)	No Industrial Partner	Nile University

123	A Cost Effective Microwave System for Soil Sanitation (PRP)	No Industrial Partner	Egypt-Japan University of Science and Technology
124	Droplet Formation on Microfluidic Chip for Miniaturized PCR Applications (PRP)	No Industrial Partner	Cairo University
125	Sentiment Analysis Tool for Arabic (PDP)	The Engineering Company for Digital Systems Development	American University in Cairo
126	Call Center Voice Classification using Big Data Techniques (ARP)	Linux Plus	Cairo University
127	TESTICIDE, Tester's Pesticide (ARP)	TESTICIDE	Helwan University
128	Humanized Digital Marketplace (PRP)	Endos	American University in Cairo
129	Design and Implementation of hardware Internet of Things (IOT) Adaptive Security Supporting System (PRP)	Innova Integrated Solutions	German University in Cairo
130	Face In/Out: Time and Attendance Tracking System using Facial Biometrics, Emotional Expressions and Mobile Devices (ARP)	UESystems Co.	Assuit University
131	Ultrasound Elastography Add-on Module for Detecting Breast Tumors (ARP)	Dileny Technologies and Consultations (DilenyTech)	Cairo University
132	An Electrokinetic Based Microfluidic Platform for DNA Detection, Identification and Sorting (PRP)	N/A	Zewail City of Science and Technology
133	A ray tracing simulator for radio wave propagation based on geometric algebra (PRP)	Axxcelera Egypt	Port-Said University
134	Photonic superlattice for generating and engineering hyperentangled photons: Core of quantum	N/A	Zewail City of Science and Technology

	computation and encryption systems (PRP)		
135	Tunable ultra-low phase noise MEMS-based optoelectronic oscillator at LTE frequency bands (PRP)	N/A	German University in Cairo (GUC