

RDI E-Learning Dept.

Brand name

RDI stands for “Research & Development International”.

Official name

The Engineering Company for the Development of Computer Systems

Identity

Egyptian corporate software house.

Established since

1993

Mission

Realizing leadership and innovation in the CIT world through an economically successful corporation that provides outstanding products & services seeking for the development of the society.

Founders

- Prof. Mohsen A. A. Rashwan (Chairman of the Board & Managing Director).
- Prof. Muhammad M. Islam (Board member).
- Prof. Hazim M. M. Ra’fat (Board member).

Other main share holders

- Egyptian MCIT 's Technologies Development Fund (TDF).
- Investors from the Gulf countries.

Location

12A Haroun Str., Dokki, Giza, Egypt

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Awarded prizes

- First prize in the 2007 World Summit Award contest for best e-content/e-Learning track where about 850 other candidates from 160 countries had participated. This international prize is awarded for RDI's Hafss© technology for the interactive learning of spoken language applied on the Quran recitation.

Also Hafss© won e-Content Award (first prize) in the e-Learning track from the Egyptian IT Industry Development Agency (ITIDA); 2006.

The goal of this innovative technology Hafss© is to afford an effective assistance in the self learning of spoken language. Hafss© which has proved effective in helping people learn Tajweed of the holy Qur'an is also helpful in learning spoken Arabic and other languages as well. In fact, RDI is cooperating with European partners about adapting it to help in learning the less famous spoken European languages like Sweden.



<http://www.rdi-eg.com/downloads/E-LearningDemos/Hafss.rar>



<http://www.rdi-eg.com/downloads/E-LearningDemos/Hafss.zip>
(Compressed Video Presentation about Hafss, 73 MB)

- Hummus & Bunduq is a high quality cartoon drama works for kids using computerized 3D animation technologies. The content of RDI drama works has an ethical trend enveloped in a light comic frame. The 1st episode of RDI's 30-episode 3D cartoon series; "Hummus & Bunduq", has been awarded the Gold prize of the "8th Cairo Festival of Broadcasting & TV; year 2002" after a strong competition with other quality works from more than 22 middle east countries.



<http://www.rdi-eg.com/downloads/E-LearningDemos/Hummus & Bunduq.rar>



<http://www.rdi-eg.com/downloads/E-LearningDemos/Hummus & Bunduq.zip>

(Arabic Movies, 20 MB)

- Best Multimedia Title on Jerusalem from PC-Magazine (Middle East); 2000.
- Best of GITEX 1996; for the (by then) novel technology of Speech Compression.



RDI Major Clients

Major Clients

www.rdi-eg.com









الجامعة المصرية للتعليم الإلكتروني
Egyptian E-Learning University



























Associations

- 🏠 CoE – Egypt.
- 🏠 NEMLAR – EC
- 🏠 ELDA / ELRA – France
- 🏠 CST – Denmark



المدرسة الذكية
THE SMART SCHOOL

Major Clients:

- 🏠 First E-University [Egypt]
- 🏠 ReDSOFT [Kuwait]
- 🏠 Sure [Saudi]
- 🏠 IBM – EGYPT & EU
- 🏠 Microsoft – Saudi Arabia
- 🏠 European Union
- 🏠 BBN – USA
- 🏠 Acapela Group – Belgium
- 🏠 Nattiq – UAE

RDI

About RDI E-Learning Dept.

- Our e-learning solutions business line has been carefully set-up to provide its clients with turn-key solutions that can guarantee better education quality to their institutions. RDI has a wide spectrum of products that perfectly serve the e-learning objectives supported by a large and integrated tool box of advanced text and speech technologies & high quality 2D/3D animation seeking to optimally match both our client's requirements and budget. RDI solutions are deployed by major corporations, governments, and educational sectors around the world, and have proven records of helping students to focus, to improve their performance, and to accelerate their progress, as well as assisting teachers educating even larger numbers of students effectively.
- RDI distinctly and densely produce E-learning enriched with animations and simulations for educational as well as vocational training projects for various levels and ages; from primary to colleges, and in various languages; from Arabic, English and other Latin based languages, and for different curricula; from History to Physics and from Religion to Mathematics.
- RDI help people gain skills and knowledge by providing a wide array of multimedia resources for e-learning, e-training and student e-evaluation. These multimedia resources are used by major corporations, governments, and educational sectors around the world.
- The production of RDI's e-Learning solutions relies on a group of consultants in education, highly trained project managers, developers, and graphics designers, under the supervision of a group of university professors who promote scientific research.
- Our staff of experienced, highly trained professionals strives to provide exceptional customer service at all times.
- Complete systems that comply with the most advanced standards 'SCORM' are offered.

Examples of Mega Projects that RDI participated in into E-Learning Dept.

➤ **EELU Courses: @2009 - @2010 - @2011**



NGSE-RDI-Bayan Consortium has won the 2009-tender of EELU (The first E-Learning University in Egypt <http://www.eelu.edu.eg/wps/portal>) for developing its e-courses in the different disciplines of engineering, computer science, business, and humanitarians.

 <http://www.rdi-eg.com/downloads/E-LearningDemos/Math.rar>

 <http://www.rdi-eg.com/downloads/E-LearningDemos/Math.zip>
(Compressed Math Demo, 25 MB)

➤ Science for Gulf Curricula: @2008 - @2009



RDI has developed and delivered during 2008, 2009 over than 1,300 Secondary Science Learning Objects [Physics, Chemistry, Biology and Geology] for a Major Client in the Gulf.



<http://www.rdi-eg.com/downloads/E-LearningDemos/ScienceForGulf.rar>



<http://www.rdi-eg.com/downloads/E-LearningDemos/ScienceForGulf.zip>

(Compressed Arabic Flash Files, 9.08 MB)

➤ Science for Saudi Curricula and E-Book: @2009

القانون الأول للديناميكا الحرارية:-



كمية الحرارة التي يمتصها أو يخرجها النظام تساوي مجموع التغير في الطاقة الداخلية للنظام والشغل الذي يبذله النظام أو يبذل على النظام

$\Delta T = mc \cdot \Delta \theta$

RDI is working now into the Implementation phase for Secondary Science Learning Objects [Physics and Geology] for a Major Client into Saudi.

More over RDI is delivering all Secondary curricula as an E-Book for the same Client into KSA.



<http://www.rdi-eg.com/downloads/E-LearningDemos/ScienceForSaudi.rar>




<http://www.rdi-eg.com/downloads/E-LearningDemos/ScienceForSaudi.zip>

(Compressed Arabic Flash Files, 2.13 MB)

➤ **Libya Curricula: @2007 - @2008 - @2009**

In cooperation with Intel-Egypt, ISIS-RDI consortium has delivered the project with the Libyan Ministry of Education to supply the new Classmate simplified computers from Intel along with the digital curricula of Arabic, history, geography, science and mathematics for the primary and preparatory stages from RDI to the students in Libya.

 http://www.rdi-eg.com/downloads/E-LearningDemos/Libya_Curriculum.rar

 http://www.rdi-eg.com/downloads/E-LearningDemos/Libya_Curriculum.zip
(Compressed Arabic Flash Files, 5.38 MB)

➤ E-Learning projects in KSA:




Microsoft has bought the rights of RDI's e-learning content of the curricula of KSA (preparatory & secondary) stages for the schools belonging to the Saudi ministry of education. This deal has been completed through MGD that is our partner in KSA.

 http://www.rdi-eg.com/downloads/E-LearningDemos/KSA_LOs.rar

 http://www.rdi-eg.com/downloads/E-LearningDemos/KSA_LOs.zip
(Compressed Arabic Flash Files, 5.59 MB)

 <http://www.rdi-eg.com/downloads/E-LearningDemos/LaboratoryExperiments.rar>

 <http://www.rdi-eg.com/downloads/E-LearningDemos/LaboratoryExperiments.zip>
(Compressed Laboratory Experiments Demo, 52 MB)

➤ **Qur'an sciences portal of the Kuwaiti Ministry of Endowments & Religious Affairs :**

The Kuwaiti Ministry of Endowments & Religious Affairs contracted with RDI to build its new comprehensive Qur'an Sciences Encyclopedia web portal where RDI is deploying its Qur'an tools as well as its novel technology for the interactive self-learning of Tajweed (Hafss <http://www.hafss.com>).

➤ **E-Book projects in Libya:**




Powered by RDI innovative technologies [Text To Speech, Arabic Search Engine, and Arabic Morphological Analyzer] RDI has finalized and delivered many E-Books to the World Islamic Call Society in Libya and still working into others.

 <http://www.rdi-eg.com/downloads/E-LearningDemos/Akhlaq.rar>

 <http://www.rdi-eg.com/downloads/E-LearningDemos/Akhlaq.zip>
(Compressed E-Book with Setup, 108 MB)

 <http://www.rdi-eg.com/downloads/E-LearningDemos/Almostagad.rar>


 <http://www.rdi-eg.com/downloads/E-LearningDemos/Almostagad.zip>
(Compressed E-Book with Setup, 47 MB)

➤ **E-Learning for Smart School in Kuwait:**

RDI has finalized a large e-Learning project where all the curricula of the Kuwaiti primary stage will be turned in exciting software specially designed with high interactivity and rich Flash animation. RDI targets to make education a fun for kids at that early age. Smart school was the first – not the exclusive - client of these curricula.



 http://www.rdi-eg.com/downloads/E-LearningDemos/Smart_School.rar

 http://www.rdi-eg.com/downloads/E-LearningDemos/Smart_School.zip
(Compressed Flash Files, 36.4 MB)

Examples of Mega Projects that RDI participated in into R&D Dept.

➤ **MEDAR:**

MEDAR (MEDiterranean ARabic language and speech technology) www.MEDAR.info. Among a consortium of 15 academic and industrial partners from 14 European and Arabic countries, RDI launched in Feb. 2008 this 30-month project that comes under the seventh Framework Programme (FP7) of the European Commission's Community Research. Sharing in this project comes after the remarkably successful Euro-Mediterranean 30-month NEMLAR project where RDI played a major role towards its achievement.

➤ **NEMLAR:**

NEMLAR (Network of Euro Mediterranean Language Resources and Human Language Technology development and support) www.NEMLAR.org. This project is funded by the European Union, and is organized by the European Language Distribution Agency (ELDA) www.elda.fr to elevate the status of Arabic Human Language Technologies (HLT'). RDI has been a main participant in the project all over that successful project that endured from Feb. 2003 till Aug. 2005.

➤ **Text Mining:**

Under the supervision of its Information Technology Industry Development Agency (ITIDA), The Egyptian Ministry of Communications and Information Technology (EMCIT) has started with the Data Mining & Computer Modeling CoE in Sept. 2005.

RDI has been selected by EMCIT as a member of this Data Mining consortium to exert high quality R&D tackling the Arabic NLP issues necessary for producing sound Arabic Text Mining. In this project, RDI is developing an Arabic Lexical Semantic Analyzer which is the core of the novel Arabic Text Mining tools being developed within this project.

➤ **Virtual Tutor:**

Virtual Tutor, which is selected from 45 submitted project proposals to the Information Technology Industry Development Agency ITIDA's Information Technology Academia Collaboration ITAC fund. The project aims to revolve the education via producing an advanced authoring and browsing kit that can be deployed by any entity interested in developing cultural and/or educational oriented content enriched by RDI's speech recognition, text-to-speech, virtual talking face simulator, full text-search, online dictionaries, ..., and other RDI tools that together render e-learning into an exciting live interactive experience.

➤ **OrienTel:**

The major goal of the OrienTel data collection is to enable the project's participants to design and develop multilingual interactive communication services for the Mediterranean and the Middle East, ranging from Morocco in the West to the Gulf States in the East, including Turkey and Cyprus. The set of possible applications using the OrienTel databases will be speech-based and will typically be implemented on mobile and multi-modal platforms such as cellular GSM or fixed phones. In order to develop such applications, spoken language resources must first be created that adequately cover various aspects of speech variation.

RDI E-Book Advanced Tools

➤ Text To Speech (TTS)

This TTS from RDI reads any given text using a hybrid concatenative/parametric speech synthesizer which affords a compact system within few tens of mega bytes of space. The Text To Speech from RDI rich E-Book by making it readable so that it can be recorded and off-line heard in MP3 or RM format.

➤ Talking Head

This is the second generation of interactive books. We integrate in each E-Book one (or more) Talking Head, which is primarily a life-like interactive computer animated character that lives within the interactive books. During the learning process, it interacts adaptively with the child to introduce the information of the learning material in a friendly way.

➤ On-Line Dictionary

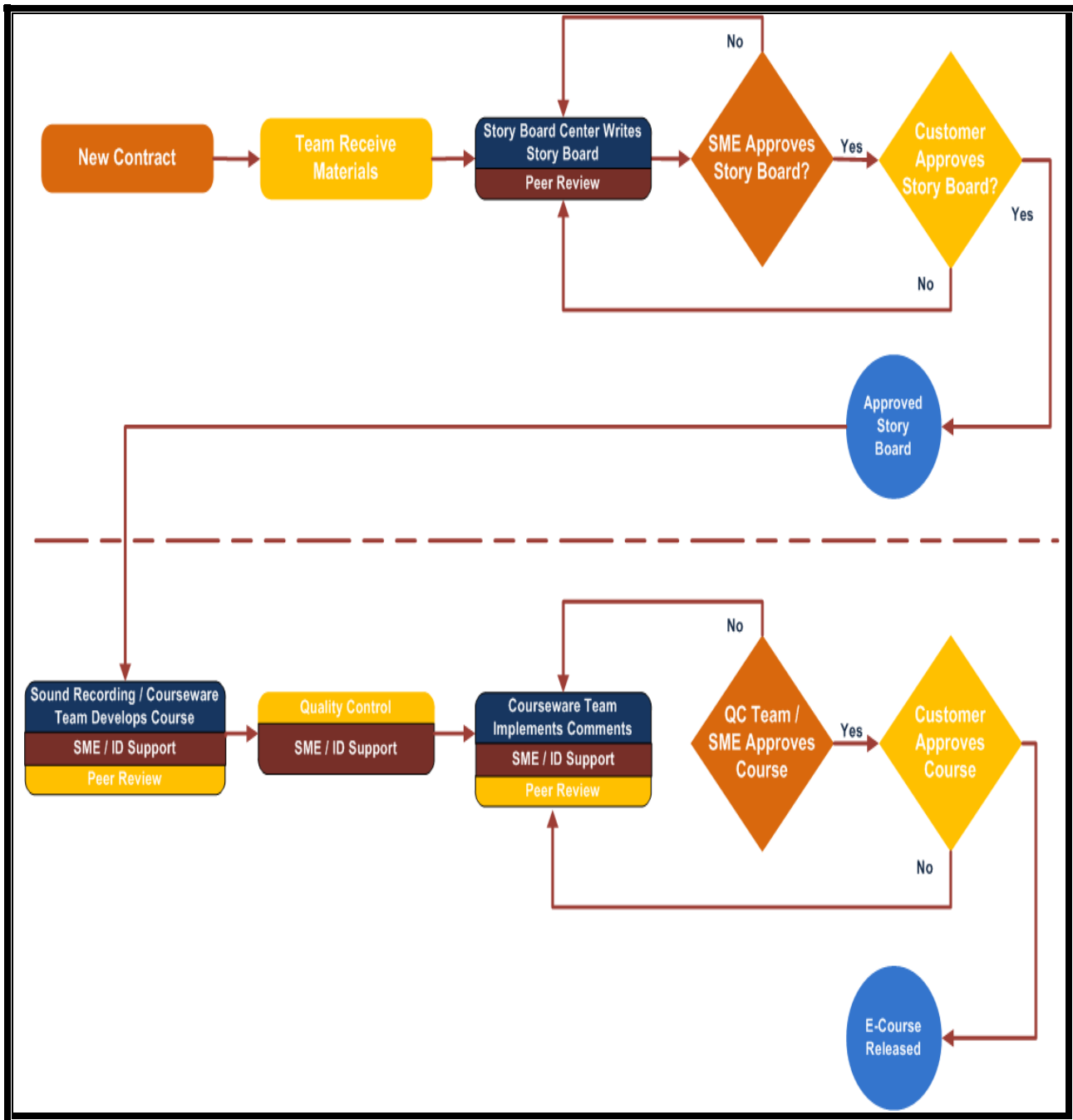
The On-Line Dictionary from RDI analyzes any given text for getting the root, the pattern, the prefix, and the suffix of any word of this text. The On-Line Dictionary from RDI rich E-Book to make it easier for readers - esp. the junior - to understand Arabic text at all levels.

➤ Search Engine

This is RDI's Arabic derivative text search engine based on RDI's Arabic morphological analyzer. Search may be done at the root, pattern, or word level, where single and multiple search queries with various neighborhoods are possible. RDI Search Engine rich the E-Book via adding these advanced searching capabilities through the E-Book Text.

E-Learning Process into RDI

As RDI wants to invest its expertise gained along the way to facilitate the quality of education for youth minds, RDI is using this process to map a comprehensive picture of creating e-learning Courses.



Quality Process into RDI

RDI has gained ISO9001 on 2001, also RDI is working now by the CMMI processes to best manage its E-Learning Projects through the following Phases:

