



## Web Profile enterpriseRAS

We strongly believe that each IT solution is automation of business processes and needs. We employ our knowledge and expertise to provide high impact yet cost effective solutions to our clients. We work with long-term relationships in mind; the reason our success graph is always on a rise.

eRAS primarily based:

- 1. enterprise Resources And Solutions**
- 2. enterprise Research And Solutions**

Provides innovative IT consultancy and Web~Mobile~Software application development as a full range of services. Our offerings include affordable web design strategy, professional web development, custom web programming, e-commerce solutions, custom application development, Complete Bio-metric solutions, Optimized Email Archiving, Mobile (Android) application development, corporate identity design, outsourced offshore software development, search engine optimization (SEO), product/brand promotion & training.

We constantly improve our processes and level of expertise which enables us to provide cutting-edge & latest-in-technology solutions. We aspire to becoming an ultimate solution provider. We are committed to our clients and dedicated to their success. Contact us today to know how we can be helpful to you and your business.

### I. General R&D Process; Project Considerations

Research and development (R & D) service providers perform original investigation or apply research findings to gain new knowledge; they use this knowledge to create new or improved technologies intended to provide a competitive advantage for the business or organization which has requested their services. Industrial R & D is specifically defined as the process of obtaining new knowledge that will eventually result in new or improved products, processes, systems, or services that will benefit the company's sales or growth.

Research and development is similar to engineering but is a distinct process with unique goals. R & D creates knowledge, develops designs, and moves on to creating — and proving the feasibility of — prototypes and samples. Engineering, which follows R & D, converts these samples into marketable or economically feasible products or processes.

- Scale-up & Study Effectiveness
- Synthesize & Theorize
- Explore, Hypothesize & Clarify
- Develop & Test
- Implement & Improve

R & D may be defined as three separate sub-processes: basic research, applied research, and development. Each of these may be more or less prominently involved in the research and development process, depending upon the scope and type of project.

Basic research attempts to attain a fuller knowledge or understanding of the research subject. In an industrial sense, basic research is used to further knowledge about a subject without a specific commercial objective.

Applied research involves investigation aimed at discovering new knowledge related to a specific commercial objective involving products, processes, or services.

Development is the application of obtained research to the production of useful or commercially viable materials, products, devices, systems, or methods. This also includes the production of prototypes and sample processes.

- ENTREPRISE
- RESEARCH
- RESOURCES
- SOLUTIONS

- |                 |   |  |
|-----------------|---|--|
| <b>CONCEPT</b>  | o | Connecting Companies - Prior Consultation leads to Success   |
| <b>AIM</b>      | o | Basic AIM is to provide satisfactory services to Clients by considering technical backbone at highest level. |
| <b>RESEARCH</b> | o | Comprehensive Research based on true Programming Essentials.   |
| <b>SOFTWARE</b> | o | Precise Software Development with Transparent Software Consultancy   |

## **II. Services**

At Glance:

- o Desktop Application Development
- o Mobile Application Development
- o Web Application Development

### **Phase 1: Development Services**

- o Mobile Android Applications
- o Web CMS, SEO
- o Internet Marketing, Content Writing
- o Archiving (Email, News, Visual, Image)
- o Image/Visual Processing

### **Phase 1: Research Services**

- o Internal R&D
- o External R&D
- o Joint R&D
- o Specific R&D

### **Phase 1: Consultancy Services**

- o Technical Solutions
- o Business Management
- o Media Advisory

### III. Projects

eRAS Managing Clientele:

- o Freelance
- o Foreign
- o National

eRAS Compiled Projects:

#### I. Web

- MSF Sweden Association ([www.msfseassociation.se](http://www.msfseassociation.se)) back-end 'Content management System', Developed using RAD tool 'Druple 6.0/1' and web server 'WAMP 2.0'.

- Websites using RAD tools: WordPress, Druple, Joomla

- o <http://www.afnausa.org/>

- o <http://iisnj.org/>

- o <http://iis-school.org/>

- o <http://dcjerseyworks.com/>

- o <http://www.timetechnologiesinc.com/>

- o [www.technoemirates.net](http://www.technoemirates.net)

- o [www.exceed.pk](http://www.exceed.pk)

- o [www.hq.com.pk](http://www.hq.com.pk)

- o [www.muslimabroad.org](http://www.muslimabroad.org)

- o <http://www.legalsolutions.com.pk/>

- o <http://www.aka.com.pk/>

- o <http://www.MecGlo.com/>

- 'Uppal's Web Clinic (<http://www.uppalsclinic.com/login.aspx>)' CMS using MS VS 2010 Ultimate and MS SQL Server 2008 R2. Note: Login credentials will be available on request.

#### II. Bio-metric Marker

- 'Medical Imaging & Test Results' Application for the NCVI (NUST Center of Virology and Immunology).

- Bio-metric solution for the Fingerprint device 'Suprema BioLite Net',

By considering local software company requirements for their Government based clients.

- Converted binary MS SQL SERVER db images to WSQ format and also worked on Suprema BioStar SDK1.52 and APIs using CSharp, Customized existing client/server applications according to client requirements.

- Developed Demo utility using ImageSDK.

- Worked on 'BioEntry Plus' device using CSharp SDK and WSQ library to convert fingerprint templates into different required formats.

### III. Mobi (M-2-M, IoT)

- GPS location based Ringing Alerts Mobile Application for the Android plate-form supporting up-to Version 4.4 KitKat.
- SMS communication to control Electric Home Appliances for the Android plate-form.
- Android Apps for the Vehicle Tracking & Fleet Management System (Supporting up-to Version 4.4 KitKat) [Downloads]

### IV. Expertise

- o Technical Solutions
- o Project Management
- o Research Compilation
- o Business Coordination

:: Te@M :: [Muhammad Imran Profile \[Click to View\]](#)

- ISoc – Professional Member
- Open Islamabad – Regular Member
- IEEE CT (CollabraTec) – Member



## V. Research

HOME / RESEARCH

enterprise Research And Solutions (eRAS)

- o Prior Consultation leads to Success
- o Basic AIM is to provide satisfactory services to Clients by considering technical backbone at highest level.
- o Comprehensive Research based on true Programming Essentials.
- o Transparent Software Consultancy

### Research & Development Projects

enterpriseRAS successfully completed given below R&D based projects:

- Biometric solution compiled for the Fingerprint device 'Suprema BioLite Net' by considering local software company requirements for their Government based clients.
- Converted binary MS SQL SERVER db stored images to WSQ format and also worked on Suprema BioStar SDK1.52 and APIs for a CSharp to customize existing client/server applications according to the client requirements.
- Developed Demo utility using ImageSDK.
- Worked on 'BioEntry Plus' CSharp SDK and WSQ library to convert fingerprint images into different required formats.
- 'Medical Imaging & Test Results' Application for the NCVI (NUST Center of Virology and Immunology).
- Following projects completed with COMSATS Institute of IT (Computer and Electrical Engineering Departments) during 2007-08 as an External Supervisor:
  1. Integrated GSM based Fingerprint Authorization System (IGFAS)
  2. Fingerprint Verification System
  3. Person Identification using IRIS Scanning
  4. Object Tracking System
  5. 3D Face Modeling
  6. Face Recognition System using Eigen faces
- Cyber Crime & Digital Security Legislation across the Globe.
- Internet Governance
- Wireless Bio-metric Authentication, Action-able Bio-Metrics

### Publications Work:

**"Design and Analysis of Predictive Reflected Residual Vector Quantization",**  
International Networking and Communication Conference (INCC 2004, IEEE),  
Paper No. 901, 11-13 June 2004, LUMS Lahore, Pakistan.

**“Intrusion Attacks Detection Using OPPOSITION BASED LEARNING”** (Draft),  
National University of Modern Languages, Ministry of Petroleum & NR, Entech Pvt(Ltd.)

Completed work for the:

- **Plug-n-Play AFIS Development for Criminal and Civil Applications**
- **How to Build an Automated Fingerprint Identification System**

Review Report Request:

**“Recent Trends in Image Compression using Vector Quantization: A Neural Network Approach”**  
Image Science Journal, Published for Royal Photographic Society by Maney Publishing



## VI. Consult



### HOME / CONSULT

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