Dr. Sikder M. Zakir, MB BS (BD), PGT (USA)

APT # 401, House # 8A, Road # 30, Gulshan – 1, Dhaka-1212, Bangladesh.
Phone: 880-2-9861722, Cell: +880-171-3141931

e-mail: zakir.sikder@gmail.com

Education

Long Island University, New York, USA   *1999: PGT on Recombinant DNA Technology*

University of Dhaka, Bangladesh   *1994: Bachelor of Medicine & Surgery (MB BS)*,
Sir Salimullah Medical College & Mitford Hospital

Professional Experience

Managing Director & CEO   **10. 1999 to Date**

Telemedicine Reference Center Ltd., Dhaka, Bangladesh.

- Plan and develop international telemedicine systems and solution for healthcare organizations in developing nations
- Manage multiple project teams of 4-15 people both in Bangladesh and in USA
- Manage interactive technology projects from concept to production
- Communicate with client to scope projects, assess requirements determine assess change orders
- Forecast and manage large budgets and team hours
- Contribute to the high-level strategic direction, vision and scope of multiple projects.
- Work closely with information architects, programmers, content developers and graphic designers to communicate and implement requirements
- Coordinate team pass-offs and collaboration to produce leading-edge Intranet/Internet and interactive technology solutions
- Plan and facilitate client and team meetings and work sessions, including QA and post-mortem project review
- Provide input and direction for QA, usability assessment, test plans and strategies
- **Recently Completed Mobile Health Projects:**

  - **AMCARE**: design, development and implementation of national level chronic disease management system architecture, service processes for management of diabetes, hypertension and cardiac patients. Project has started in collaboration with Diabetic Association of Bangladesh (BADAS, the largest private health system after government) to support and manage progressively 9 Million diabetic, hypertensive and cardiac patients.

  - **E-CLINIC International**: system design, international medico-legal and ethical practice design, cloud computing based service system architecture, leadership role in development and maintaining team efforts at multi-national level in 8 countries (GCC countries, Singapore and Malaysia), distribution system and service partners' network development, connected eClinic medical facility and physician network development, to support 11 Million expatriate workers from Bangladesh, India and Pakistan in GCC countries of Middle East, Singapore and Malaysia.

  - **E-Clinic Rural Health**: largest rural health system in private sector in Bangladesh in collaboration with International Center for Diarrheal Diseases and Research, Bangladesh (www.icddrb.org) and Future Health Systems (www.futurehealthsystems.org) under leadership of Johns Hopkins School of Public Health. Worked extensively with experts in health systems from USA, UK (Institute of Developments Studies), India and ICDDR of Bangladesh to finalize health system architecture for bringing 400,000 traditional rural doctors under formal health systems of Bangladesh. Initiating the pilot from 15th July 2011 using our designed and developed cloud computing based mobile health infrastructure, electronic medical record and electronic prescription system, which are intellectual properties of TRCL.

Chief System Architect   01. 2006 to 04.2011

Grameen Phone Ltd.-TRCL (HIS) Project in Bangladesh

- **HealthLine** – A Medical Call Center Project named "HealthLine" Established Jointly by Telemedicine Reference Center Ltd. & Grameen Phone Ltd. (Largest Cell Phone Operator in Bangladesh)
- HealthLine project received global recognition by the **GSMA Global Mobile Award 2007** for **"Best Use of Mobiles for Social and Economic Development"**, GSMA Award is considered as Oscar of the Mobile Phone industry.. This project was appreciated at home and internationally because of its quality, innovative use of health technology, professionalism, cost-effective and sustainable business model.
- Designing of Electronic Medical Record system for members of HealthLine
- Planning and deployment of low-cost Rural Telehealth system
- Designing of Medical protocols for medical, pharmaceutical, laboratory information system
- Planning of medical information products and services for the general population
- Coordination of the technical, medical, telecom, wireless and service component facilitation and startup
- Planning and setting up of the Laboratory Information System in Bangladesh
- Business plan, financing, procurement and outsourcing of system and service components
- SMS based medical reporting system and database design and creation in coordination with Microsoft and other global participants
- Nationwide health care facility networking, product and service extension, distribution and collection system design and deployment in Bangladesh
- Training of management and operational staffs
- Extensive coordination with partners in India, UAE, USA, UK and Norway
- IP-PBX process flow design for medical call center services

Managing Director   08. 2001 to
                                                                    02. 2003

Bangladesh Telemedicine Services Ltd.

- Organizing and formation of largest healthcare consortium in Bangladesh Healthcare Industry to officially launch first international telemedicine program in Bangladesh
- Organization of the 1st Scientific Seminar on Telemedicine in Bangladesh
- Formation of corporation structure and management team
- Training of clinical personnel
- Designing of international teleconsultation, clinical guidelines, patient management modules
- Development of International legal agreement, working formulation and reimbursements

Research in Applications of Telemedicine in developing Countries   02.1997 to
                                                                    02. 1998

Telemedicine Technology Center, Mumbai, India.

- To conduct research in Bangladesh, USA, UK for development of cost-effective integration of Telemedicine systems in developing countries
- Traveled frequently to USA, UK for first-hand knowledge and education of Telemedicine systems and services of the developed countries
- Wrote complete technological know-how and financial aspects for establishment of the first state of-the-world Telemedicine Center in Bangladesh
- Conducted research in rural healthcare system of Bangladesh both in private and in public sector.

Director of Operation, Al-Jaber Medicom Clinic, Dhaka   09.1995 to
                                                                    12.1996

- Coordinate center activities and marketing of services across Dhaka, Bangladesh
- Assist in the research and integration of advanced technologies in to the facility
- Provide management support for overall center's daily operations

Medical Officer / Trainee
Sir Salimullah Medical College and Mitford Hospital
Dhaka, Bangladesh

09.1994 to 08.1995

- Assist in the clinical operation of the department of Medicine and Surgery of the Mitford Hospital
- Conduct teaching classes for graduating medical students
- Assist in the operations of the Blood Bank
- Coordinate voluntary medical activities of different student organizations
- Assist in the clinical research of the department of Medicine
- Created curriculum aids: Teacher's Toolbox, Technical Glossary and FAQ and Lesson Plans
- Work to meet requirement of funding sources for the poor patients
- Coordination of duty roster with multiple clinical departments & teaching of junior Physicians
- Case reporting to head of the department & presentation at clinical seminars

Part Time / Director – International Business Development
Ocean Trade International, Dhaka, Bangladesh

02.1993 to 04.1994

- Negotiate with foreign companies for international business development
- Successfully negotiated and signed re-seller agreement with Blackmer, USA
- Successfully negotiated the signing of joint-venture agreement with Overseas Technical Engineering and Construction company of Singapore
- Train and support company personnel to increase efficiency level
- Assist in the management of the organization on need-basis

Computer Skills

Hardware:
IBM-PC
Macintosh
OCR Text and Image Scanners
Slide and Film Scanners
Digital Cameras
Sound Recording and Real Audio
Robotic Microscope

Operating Systems:
Windows, DOS
Mac OS

Web Publishing:
HTML

Database Tools and Design:
SQL, MS Access
File Maker Pro
Oracle
Lotus Notes

Office Programs:
Word
Word Perfect
PowerPoint
Freelance Graphics
Excel
Lotus 1,2,3

Internet:
Netscape Communicator
Internet Explorer
FTP, Telnet

Image and Multimedia Tools:
Adobe Photoshop
Adobe Illustrator
Adobe Premiere
Acrobat PDF

Business and Prototyping Applications:
Visio 2000

Medical Software:
Fonemed, PEP ID, Psyche Systems (LIS), Hospital Information System, Rural Health Information System, eHealth, Logistics

Activities and Professional Community Participation

Member of the Editorial Board
eHealth International Journal, London, UK (www.ehealthinternational.org)

Member of the Advisory Board
LIGHT Initiative (Leadership In Global Health Technology Initiative)

Founding Executive Vice-President
Bangladesh Telemedicine Association (BTA)

Member
American Telemedicine Association (ATA)

Member
Bangladesh Medical and Dental Council (BMDC)

Member (Former)
Shandani – Voluntary organization of medical students for Blood collection.

Chief Coordinator
"Munmun Treatment Fund" of the Medical Student's Welfare Organization and successfully managed required fund to arrange treatment of sick medical students who needed advanced foreign medical / surgical care (Dhaka, 1990).

Volunteer
Medical Team to treat flood and cyclone affected patients in remote areas of Bangladesh.

Awards

Special Award

For Outstanding Contributions to International Partnership Programs of Nebraska Health System – October 2002

Honors

- **University of Constantine** (University of Constantine, Algeria) - Full tuition and stipend fellowship
- **Sir Salimullah Medical College & Mitford Hospital** - stipend

Publications

Editor-in-Chief
"Quest for Future Vision" – A student publication of the Student's Welfare Organization of Sir Salimullah Medical College and Mitford Hospital (1990).

OTHERS
"Infrastructure Development for Telemedicine in Bangladesh" – Bangladesh Computer Council (April 2000)
"Integrated Rural Health Information System (IRHIS) in Bangladesh" – Ministry of Planning, Government of the People's Republic of Bangladesh (January 2004)

Languages

English, Bengali, Hindi and French.

1. **Annual Meeting of the American Telemedicine Association:** 1998 (Salt Lake City, Utah, USA).

2. **Annual Meeting of the American Telemedicine Association:** 2000 (Phoenix, AZ).

3. **Scientific Seminar on Information and Communication Technology:** 2000 (University of Rajshahi, Bangladesh).

4. **Arab Health Conference 2002:** Dubai, United Arab Emirates.

5. **International Conference on Application of ICT in Government, Education & Healthcare Systems, Dhaka, Bangladesh on January 22, 2004.**

6. **Session Chairman and Plenary Speaker:** Internet, Technology and Telemedicine in OBGYN, Third International Gulf Congress in Obstetrics and Gynecology, Jeddah, Saudi Arabia, 5 – 8 April, 2004.

7. **Summit Meeting of the Leadership in Global Health Technology (LIGHT) Initiatives, Geneva, 2004.**

8. **Fiber-Optic Network Applications 2004:** Dhaka, Bangladesh.

9. **Arab Health Conference 2002, 2003, 2005 & 2006:** Dubai, United Arab Emirates.

10. **HIMSS Conference, February 12-16, 2006:** San Diego, California, USA.

11. **Training Partnership into Revenue – Partner Forum 2007, Green Packet network,** Manama, Bahrain, July 11-12, 2007.

12. **GITEX Dubai 2007:** September 8-12, 2007.

Attended and spoke in more than 50 conference, workshops and meetings in USA, UK, Netherlands, Geneva, India, Pakistan, Bangladesh, Saudi Arabia, UAE, Singapore, Hong Kong, China, Kenya, Liberia, Sierra Leone. Among these a few important past and future participations have been listed below:

1. **Workshop: Future Health Systems Inception Phase, Brighton, UK.**

   Organizer: Institute of Development Studies, UK.
   Date: April 12-15, 2011
   Program: Planning workshop.
   Presentation Tile: Country Presentation – eClinic for rural (traditional) doctors of Bangladesh.

2. **Future Conference, Chennai, India: Health Micro Insurance Forum 2011 (Exchange of exciting ideas, best practices and challenges.**
   Organizer: Center for Insurance & Risk Management, Chennai, India.
   http://cirm.in/events/conference/health-microinsurance-forum-2011
   Date: July 19-20, 2011
   Program: Panelist of Session.
   Session Tile: "Telemedicine: an essential value-added service and risk reduction strategy for MHI".

3. **Future Conference: Health System Reform in Asia 2011 Conference in Association**

with Journal of Social Science and Medicine, Pakfulam, Hong Kong.
Organizer: International Health Economics Association (iHEA)
http://www.healtheconomics.org/conferences/2011/12/09/health-system-reform-i.html
Date: December 9-12, 2011Program: Inaugural session.
Presentation Tile: Governance and regulation issues of eHealth and mHealth.

4. **Conference: Inaugural International Summit Meeting, Geneva, Switzerland.**
Organizer: eHealth Initiative, Washington D.C.
http://www.ehealthinitiativelight.org
Date: May 14, 2004
Program: Inaugural session.
Presentation Tile: Integrated Rural Health Information System (IRHIS).

5. **Conference: Third International Gulf Congress in Obstetrics and Gynecology, Jeddah, KSA.**
Organizer: Saudi Obstetrics and Gynecological Society (SOGS),
http://www.gulfcongress.net/sessions.asp
Date: April 08, 2004
Program: Plenary Session No. 10
Presentation Title: Maternal Care through Integrated Rural Health Information System (IRHIS).

6. **Conference: International Conference on Applications of ICT in Government, Education & Healthcare Systems.**
Organizer: Support to ICT Task Force, Prime Minister's Office, Government of Bangladesh.
Date: January 22, 2004.
Program: Inaugural Session.
Presentation Title: eHealth Care – Bangladesh Perspective.