

**Dr. Hossam Abolmagd Sadik Elkashif**  
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### **Breif Biography:**

Dr. Elkashif has a PhD degree in Construction Engineering and Management. He was graduated as a civil engineer twenty-six years ago in 1989. Since then he participated in many engineering, academic, and institutional capacity development programs mainly with the American University in Cairo and the Holding Company for Water and Waste Water.

Linkedin Profile Page address: [eg.linkedin.com/pub/dr-hossam-elkashif/31/506/740/](https://www.linkedin.com/pub/dr-hossam-elkashif/31/506/740/)

### **1. Personal Details:**

|                               |   |  |
|-------------------------------|---|--|
| <b>Title</b>                  | : Dr.   |  |
| <b>First Name</b>             | : Hossam  |  |
| <b>Middle Name</b>            | : Abolmagd Sadik  |  |
| <b>Family Name</b>            | : Elkashif  |  |
| <b>Date of Birth</b>          | : 17 / 3 / 1966   |  |
| <b>Nationality</b>            | : Egyptian  |  |
| <b>National ID Card No.</b>   | : 2 66 03 17 01 00179                                   |  |
| <b>Social Security No.</b>    | : 11-851-138  |  |
| <b>Passport No.</b>           | : A11817773   | <b>Expiry Date</b> : 10 / 3 / 2021   |
| <b>Major Specialization</b>   | : Civil Engineering                                     |  |
| <b>Last Scientific Degree</b> | : PhD Degree in Construction Engineering and Management |  |
| <b>Marital Status</b>         | : Married and have four Children                        |  |

### **2. Current Positions:**

- General Director for Private-Public-Participation at the **Holding Company for Water and Waste Water**, Ministry of Housing, Utilities, and Urban Developemnt.
- Part-Time Assistant Professor, participating - since Feb. 2001 - in the **Professional Program in Project Management; PRMG** and the **Professional Program for International and Construction Contracts; PACT** at the **Engineering and Science Services Unit, the American University in Cairo.**

### **3. Preferred Work Domains:**

- Design & Coordination of Professional Training Programs
- Institutional Capacity Building Programs
- Controls Management
- Strategic Planning
- Construction Project Management
- Claims Analysis
- Risk Management

#### 4. Special Experiences:

- Analysis and Design of Professional Training Programs
- Institutional Capacity Building Programs in the Water & Waste Water Sector
- Systems Analysis and Design
  - Claims Analysis

#### 5. Scientific Qualifications:

- **PhD Degree in Construction Engineering and Management:**  
Thesis title is “DSS for Selecting Potable-Water Project Portfolios in Egypt”,  
Faculty of Engineering, Cairo University - Dec. 2005.
- **Professional Certificate in Arbitration:**  
Center of Arbitration, Faculty of Law, Ain-Shams University, Cairo, Egypt - Mar. 2006.
- **MSc Degree in Construction Engineering and Management:**  
Thesis title is “Preliminary Models for Construction Bids Evaluation in Egypt”,  
Faculty of Engineering, Cairo University - Mar. 2000.
- **Mini Certificate Diploma in Internet Services:**  
Center of Adults and Continuing Education (CACE), The American University in Cairo - Dec. 1997.
- **Professional Certificate in Computer Systems and Applications:**  
Center of Adults and Continuing Education (CACE), The American University in Cairo - Jul. 1997.
- **Post Graduate Diploma in Engineering Management:**  
Interdisciplinary Program, Faculty of Engineering, Cairo University (1994)
- **Bachelor of Civil Engineering:**  
Faculty of Engineering, Assiut University (1989)

#### 6. Scientific Dissertations:

- Elkashif, Hossam A. (2005). “**DSS for Selecting Potable-Water Project Portfolios in Egypt**”. PhD. Thesis, Faculty of Engineering, Cairo University.  
*Keywords: Public Sector, Potable-Water Projects, Decision-Making, Project Selection, Project Portfolios, Evaluation Criteria, Measurement Indicators, Deterministic Modeling, Uncertainty, Fuzzy Logic, Monte Carlo Simulation, Cost/Benefit Analysis.*
- Elkashif, Hossam A. (2000). “**Preliminary Models for Construction Bids Evaluation in Egypt**”. MSc. Thesis, Faculty of Engineering, Cairo University.  
*Keywords: Construction Projects, Bids Evaluation, Decision-Making, Evaluation Criteria, Contractor Selection, Neural Networks, Multi-Attribute Utility Theory, Uncertainty.*
- Elkashif, Hossam A. (1994). “**An Integrated System for the Economic Design of Irrigation Sprinkling Systems**”. P.G. Diploma dissertation project - *in Arabic* -, Faculty of Engineering, Cairo University.  
*Keywords: Crops water requirements, Water Consumption, Sprinkling Irrigation, Sprinkling Systems, Sprinklers Network Planning, Irrigation Systems, DBase Management Systems.*

#### 7. Awards:

- **Prof. Ehab Isma3eel Prize; under the name of Prof. Hassam Mahmoud Emam**, for the distinctive effort exhibited in preparing the PhD Dissertation, 2008 Graduates Day; Saturday, April 11<sup>th</sup>, 2009, Faculty of Engineering, Cairo University.
- **Appreciation Certificate from the Faculty of Engineering, Cairo University**, 2008 Graduates Day; Saturday, April 11<sup>th</sup>, 2009.
- **Teaching Assistance Awards** from the American University in Cairo started on February 2001 and continued till February 2006.

## 8. Overseas Observational Study Tours:

- Sep. 28 – : A 10-days tour to the **Massachusetts Water Resources Authority (MWRA), Boston, Massachusetts, USA**. The trip concentrated on technical and engineering aspects of utility operations and included visits to relevant organizations in New England, including the Massachusetts Water Resources Authority, New England Water Works Association, Narragansett Bay Commission and Providence Water Supply Board in Rhode Island, and Boston Water and Sewer Commission. Sponsored by **the Water and Wastewater Sector Support (WWSS) Program**, Chemonics International.
- Oct. 7, 2010
- July 25-30, 2009 : A 6-days tour to **Amman Water Company (Miyahuna), Amman, Jordan**. It focused on best practices in utility management and business planning. Sponsored by **the Water and Wastewater Sector Support (WWSS) Program**, Chemonics International.

## 9. Previous Experiences:

### • **Managerial Experiences:**

- Mar. 2015 - : General Director for Private-Public-Participation at the **Holding Company for Water and Waste Water**, Ministry of Housing, Utilities, and Urban Development.
- Apr. 2011 – : General Director for Projects Follow up<sup>1</sup> at the **Holding Company for Water and Waste Water**, Ministry of Housing, Utilities, and Urban Development.  
Feb. 2015
- Apr. 2009 - : General Director for Planning and Follow up at the **Holding Company for Water and Waste Water**, Ministry of Housing, Utilities, and Urban Development.  
Apr. 2011
- Mar. 2007 – : Part-Time Senior Planner and Cost Engineer at the **Golden Pyramids Plaza Co.**, City Stars, Nasr City.  
Mar. 2009
- Sep. 2005 - : Controls Coordinator<sup>2</sup> at the **Egyptian Group for Engineering Consultants (EGEC)** for the following projects  
May 2007
- Nov. 1999 - : Research Engineer at the **Studies & Research Dept., General Organization for Greater Cairo Potable Water**.  
May 2007
- Dec. 1997 - : Technical Office Engineer at **Hosny Consulting Engineers Office**.  
May 2000
- Jan. 1994 - : Project Manager at the **General Organization for Greater Cairo Potable Water**.  
Apr. 2009
- May 1992 - : Executive Construction Engineer at the **General Organization for Egyptian Antiquities - Ministry of Culture**.  
Dec. 1993

### • **Institutional Capacity Building Experiences:**

- 2015 - : Key participant in the Technical Assistance for Establishing Leadership Development Programs (LDPs) for the HCWW and Developing its Financial Strategy, Funded by the European Union.
- 2013 - : Key participant in the institutional capacity development of the Project Sectors/ Departments at the subsidiary companies of the Holding Company for Water and Wastewater.
- Feb. 2011 : Designed a training Program to improve the construction management capacity of the Project Sector Engineers at the Holding Company for Water and Wastewater and its Subsidiaries.
- 2009 – 2010 : General Counterpart and Coordinator for the **Water and Wastewater Sector Support**

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<sup>1</sup> A brief job description is presented in Appendix – A at the end of this document.

<sup>2</sup> A brief job description is presented in Appendix – B at the end of this document.

**(WWSS) Project**, implemented by Chemonics International for the Holding Company for Water and Waste Water, and financed by the USAID.

- 2009 : Part-Time Local Expert and Coordinator at the **Mott MacDonald Limited** and **Capacity Building International (CBI)**. Working in the Institutional Capacity Building Project<sup>1</sup> of the **Egyptian Water Regulatory Authority (EWRA)** to become an effective economic drinking water quality regulator.
- 2006 - 2007 : Director<sup>2</sup> for project **MIC 06/037 "NOPWASD Project"**, for the National Organization for Potable Water and Sanitary Drainage (NOPWASD) under the Ministry of Housing, Utilities, and Urban Development (MHUUD) in conjunction with the Operational Unit for Development Assistance (OUDA) – a United Nations affiliate.
- 2004 – 2006 : Member of the **Economic Analysis and Private Sector Participation Projects committee**, Water and Waste Water Sector Policy Reform WWSPR Project, Ministry of Housing, Construction and New Communities in conjunction with the CH2M Hill, USAID.
- 2003 - 2004 : Participated in preparation of the scientific material and MS Powerpoint presentations, on-job training, coordination, for the **Customized Program for the Project and Construction Managers for the Arab Contractors Company**<sup>3</sup>, Engineering Services Unit, School of Science & Engineering, the American University in Cairo.
- 2003 – 2004 : Participated in preparation of the scientific material and MS Powerpoint presentations, facilitation, on-job training, coordination, financial management for the **Leadership and Supervision Program for the Main Office and Governorate Teams, Family Planning units**, Ministry of Health and Population - Phase I (three workshops and two site visits), financed by CATALIST Program, USAID.

• **Academic Experiences<sup>4</sup>:**

- Sep. 2013 - : Part-Time Assistant Professor at the **Department of Building & Construction Engineering, Faculty of Engineering, Arab Academy for Science, Technology, and Maritime**.
- Feb. 2013 - : Part-Time Assistant Professor at the **Department of Electronics & Communication Engineering, Faculty of Engineering, Misr International University MIU**.
- Feb. 2008 – Jul. 2011 : Part-Time Assistant Professor at the **Department of Structural Engineering, Faculty of Engineering, Cairo University**
- Feb. 2007- Aug. 2008 : Part-Time Assistant Professor at the **Department of Construction Engineering, Faculty of Engineering, Misr University for Science and Technology (MUST)**<sup>5</sup>
- Feb. 2006 – : Part-Time Assistant Professor, participating in the **Professional Program in Project Management** at the **Engineering and Science Services Unit, School of Science & Engineering, the American University in Cairo**.
- Feb. 2006 - May 2007 : Part-Time Assistant Professor at the **Department of Construction Engineering and Building, Faculty of Engineering, October 6 University (O6U)**<sup>6</sup>
- Feb. 2006 - Jan. 2006 : Part-Time Instructor at the **Construction Engineering Dept., School of Science & Engineering, the American University in Cairo**.
- Jun. 2003 - Feb. 2006 : Teaching assistant at the **Construction Engineering Dept., School of Science & Engineering, the American University in Cairo**
- Feb. 2001 - Feb. 2006 : Teaching assistant at the **Engineering and Science Services Unit (ESS), School of Science & Engineering, the American University in Cairo**.

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<sup>1</sup> An EU Service Contract administered by the Programme Office for the Support to the Egyptian European Association Agreement (SAAP/PAO), Ministry of International Cooperation.

<sup>2</sup> A brief job description is presented in Appendix – C at the end of this document.

<sup>3</sup> Brief about this program is presented in Appendix – D at the end of this document.

<sup>4</sup> List of the courses offered in Appendix – E at the end of this document.

<sup>5</sup> [http://www.must.edu.eg/eng\\_3.htm](http://www.must.edu.eg/eng_3.htm)

<sup>6</sup> [http://www.o6u.edu.eg/eng/study\\_program.html](http://www.o6u.edu.eg/eng/study_program.html)

- **Training Experiences:**

- Oct. 2015 – : Design and development of the **Integrated Program for the PMP Certification; IPMP**<sup>1</sup>
- Jan. 2016 : for the Project Management Institute (PMI).
- Feb. 2015 - : Design and coordination of the new **Professional Program in Tunnel Engineering; TUNL**<sup>2</sup> for the ESS at the American University in Cairo.
- Dec. 2014 - : Design and coordination of the new **The Professional Program in Infrastructure Asset Management; NFRA**<sup>3</sup> for the ESS at the American University in Cairo.
- Nov. 2014 - : Lecturing “**Introduction to Finance in Oil and Gas Industry**”, organized by **Projacs Academy**, 10 – 15 Nov., Kuala Lumpur, Malaysia.
- Aug. 2014 - : Design and coordination of the new **Professional Program in International & Construction Contract Administration; PACT**<sup>4</sup> for the ESS at the American University in Cairo.
- Apr. 2014 - : Design and coordination of the new **Professional Programs for Construction Site Management (SITE)**<sup>5</sup> & **(MSTR)**<sup>6</sup> for the ESS at the American University in Cairo.
- Feb. 2008 - : Presented Project Management lectures for the **International Business Development (IBD) Program** certified by the **American Society of Civil Engineers (ASCE)**, at the American University in Cairo.
- Jan. 2008 – : Conducted Project Management courses for the senior engineers of the **National Organization for Potable Water and Sanitary Drainage (NOPWASD)**
- Nov. 2008
- Nov. 2006 - : Conducted Project Management courses for the **IPMA exam**, TÜV Construction Quality Control Ltd<sup>7</sup>
- Feb. 2004 - : Conducting one-day courses for the **Training Center of Arab Contractors Co.**
- Feb. 2004 - : Conducted Primavera Project Planner lectures at the **Construction Engineering Dept., School of Science & Engineering, the American University in Cairo.**
- Feb. 2006

- **Software Programming Experiences:**

- **System Analysis and Design** for the development of a comprehensive in-house system for the overall control of the new Madinaty Project (owned by *Tal3at Mosstafa Group*). The system modules comprise Document Control, Scheduling, Invoicing, Risk Management, Cost Estimation and Control, Quality Administration, Resource Administration, and Performance Evaluation (2006).
- Developed a **Decision-Support-System** for potable-water projects evaluation and scheduling (2005)
- Developed a **Fuzzy-Logic** based model for construction projects evaluation (2005)
- Used the **Monte-Carlo Simulation** in building a model for projects selection (2005)
- Used the **Multi-Attribute-Decision-Making** technique for construction bids evaluation (2000)
- Developed an **Artificial Neural Network** for construction bids evaluation (1999)
- Developed a core **DBase system** for the prequalification of construction contractors using Visual C++ (1997)
- Developed a core **DBase system** for the economic design of the sprinkling irrigation systems (1994)

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1 Brief about this program is presented in Appendix – F at the end of this document.

2 Brief about this program is presented in Appendix – G at the end of this document.

3 Brief about this program is presented in Appendix – H at the end of this document.

4 Brief about this program is presented in Appendix – I at the end of this document.

5 Brief about this program is presented in Appendix – J at the end of this document.

6 Brief about this program is presented in Appendix – K at the end of this document.

7 [http://www.tuv.com/de/en/anschriften\\_weltweit\\_laenderliste.html?sKontinent=afrika&sLand=%C3%84gypten](http://www.tuv.com/de/en/anschriften_weltweit_laenderliste.html?sKontinent=afrika&sLand=%C3%84gypten)

- **Other Engineering Experiences:**

- Jan. 1991 - : Opened a private office for contracting and engineering services.  
May 1991  
Sep. 1989 - : Irrigation Engineer at the **Modern Agriculture Research Institute - Ministry of**  
Aug. 1991 **Agriculture.**

## **10. Scientific Publications:**

- Ashrey, Yehya M.; Bayoumi, Salah; Elkashif, Hossam (2012). **“Applying Risk-Based Asset Management Concepts to Prioritise Water and Wastewater Replacement and Renewal Projects for Funding”**. 5th Best Practices Conference “Utilities Perspective on Water Resources Management in the Arab Region”, ACWUA, 3-5 June 2012, Muscat, Sultanate of Oman.
- Elkashif, Hossam A.; Hosny, Ossama A.; Ezeldin, A. Samer; Ramadan, Osman M. (2010). **“A Fuzzy-Logic Approach for the Selection of Potable-Water-Project Portfolios”**. J. Advances in Fuzzy Systems.
- Elkashif, Hossam A (2010). **“An Investment Planning Approach For Potable-Water Projects in Egypt”**. The First International Conference & Exhibition on Sustainable Water Supply and Sanitation, 25-27 July, 2010, Cairo, Egypt.
- Elkashif, Hossam A.; Hosny, Ossama A.; Ramadan, Osman M. (2005). **“A DSS for public utilities project portfolio selection - part I: system framework”**. The Third International Structural Engineering and Construction Conference (ISEC-03) "Collaboration and Harmony of Creative Systems", 20-23 Sep. 2005, Shunan, Japan.
- Elkashif, Hossam A.; Hosny, Ossama A.; Ramadan, Osman M. (2005). **“A DSS for public utilities project portfolio selection - part II: evaluation indicators”**. The Third International Structural Engineering and Construction Conference (ISEC-03) "Collaboration and Harmony of Creative Systems", 20-23 Sep. 2005, Shunan, Japan.
- Elkashif, H. A., Hosny, O.A., Ramadan, O.M. (2004). **“Criteria Affecting the Selection of Construction-Project Portfolios for the Egyptian Public Utilities”**, Scientific Bulletin, Faculty of Engineering, Ain-Shams University, Vol. 39(4), Dec 2004, PP. 299 - 314, reprinted in Vol. 40(1), Mar 2005, PP. 319 - 345.
- Elkashif, H. A., Hosny, O.A., Ramadan, O.M., El-Said, M. (2000). **“An Integrated Model for Construction Projects’ Bid Evaluation in Egypt”**. Proceedings of the 5th World Congress & Exhibition, Sponsored by the World Organization of Building Officials (WOBO), 26 - 29 March, 2000, Dubai, UAE.
- Elkashif, H. A., Hosny, O.A., Ramadan, O.M., El-Said, M. (1999). **“Towards the Development of a System for Construction Bids Evaluation”**. PP. 419-429, Proceedings of the 6th International Exhibition & Conference for Building and Construction; InterBuild 99, 26-30 June 1999, Cairo, Egypt.

## **11. Conferences and Workshops:**

- **2nd International Conference & Exhibition on “Sustainable Water Supply & Sanitation”**, 3-5 Dec. 2012, Cairo, Egypt.
- **ACWUA 5th Best Practices Conference “Utilities Perspective on Water Resources Management in the Arab Region”**. 3-5 June 2012, Muscat, Sultanate of Oman.
- **The First International Conference & Exhibition on Sustainable Water Supply and Sanitation**, called for by the Holding Company for Water and Wastewater of Egypt, 25-27 July, 2010, Cairo, Egypt.
- **International Seminar on Infrastructure Asset Management**, 5-days workshop by Metropolis International Institute – African and Middle East Branch – in collaboration with Housing and Building Research Center (HBRC), 7 – 11 Dec. 2009, HBRC, Cairo.
- **Strategic Business Planning for W/WW Subsidiary Companies**, 2-days Workshop by Chemonics International and USAID, May 20-21, 2009, Stars Intercontinental, Cairo.
- **Sustainable Construction Design, Management and International Assessment**, 2-days Workshop facilitated by the Sustainable Cities Research Institute, Northumbria University, UK in collaboration with StepUp Consultancy, May 16-17, 2009, Cairo Sheraton, Cairo.

- **Water and Waste Water Sector Policy Reform WWSRP Project – The Project Manager's Manual**, 5-Days Workshop, Sponsored by CH2M Hill, Ministry of Housing, Utilities and Urban Development, and USAID, July 13-17, 2008, The National Housing and Building Research Center, Cairo, Egypt.
- **Water and Waste Water Sector Policy Reform WWSRP Project – The Project Life Cycle & Project Chartering**, One-Day Workshop, Sponsored by CH2M Hill, Ministry of Housing, Utilities and Urban Development, and USAID, May 13, 2008, the Grand Hyatt Hotel, Cairo, Egypt.
- **Water and Waste Water Sector Policy Reform WWSRP Project - Key Stakeholder Communications: Reporting, Report Formats, & Procedures**, One-Day Workshop, Sponsored by CH2M Hill, Ministry of Housing, Utilities and Urban Development, and USAID, Mar 24, 2008, the Four Seasons Hotel, Garden City, Cairo, Egypt.
- **Water and Waste Water Sector Policy Reform WWSRP Project - Portfolio Management** One-Day Workshop, Sponsored by CH2M Hill, Ministry of Housing, Utilities and Urban Development, and USAID, Dec 3, 2007, Grand Hyatt Hotel, Cairo, Egypt.
- **The Third International Structural Engineering and Construction Conference (ISEC-03) "Collaboration and Harmony of Creative Systems"**, 20-23 Sep. 2005, Shunan, Japan.
- **Water and Waste Water Sector Policy Reform WWSRP Project - Pilot Projects** One-Day Workshop, Sponsored by CH2M Hill - Ministry of Housing, Construction and New Communities - USAID, Feb 17, 2004, Grand Hyatt Hotel, Cairo, Egypt.
- **ISO-9001 Acknowledgement**, One-Day Workshop, June 5, 2002, Institute of Quality Management, School of Business, Economics and Communication, the American University in Cairo.
- **The 5th World Congress & Exhibition**, Sponsored by the World Organization of Building Officials (WOBO), 26 - 29 March, 2000, Dubai, UAE.
- **The 6th International Exhibition & Conference for Building and Construction; InterBuild 99**, 26-30 June 1999, Cairo, Egypt.

## **12. Committees:**

- Member of the **Permanent Committee for Specifications and Standard Contracts** at the Holding Company for Water and Wastewater.
- Member of the **Strategic Planning Committee** at the **Egyptian Syndicate of Engineers**.
- Member of the **National Projects Committee** at the **Egyptian Syndicate of Engineers**.
- Technical member of the Supreme Committee for Handing-Over the Water and Wastewater Projects Implemented by the National Organization for Potable Water and Sanitary Drainage (NOPWASD)
- Member of the organizing committee of the **First International Conference & Exhibition on Sustainable Water Supply and Sanitation, 25-27 July, 2010, Cairo, Egypt**. (Nov. 2009 – Jul. 2010)

## **13. References:**

**Name** Dr. Ahmad Samer Ezziddeen  
**Position** Head of the Project Management Dept., the **Egyptian Group ... (EGEC-PM)**  
**Address** Department of Project Management, 14 Ibraheem Salem St., Kolleyet Elbanat, Heliopolis.  
**Tel. No.** 0123136686 - 24152974 **Fax Number** 24178304  
**E-mail** [aezeldin@aucegypt.edu](mailto:aezeldin@aucegypt.edu)

**Name** Dr. Ossam Ahmad Hosny  
**Position** Head of the Project Management Dept., Hosny Consulting Engineers (**HCE**)  
**Address** Department of Project Management, Nozha St., Triumph Sq., Heliopolis.  
**Tel. No.** 0122165945 - 24192170 **Fax Number** 24192170  
**E-mail** [ohosny@aucegypt.edu](mailto:ohosny@aucegypt.edu)

**Name** Eng. Hesham Abdel'Haleem Mahran  
**Position** Head of the Prjects and Design Department, Golden Pyramids Plaza Co. (**City Stars**)  
**Address** Star Capital 2, Ali Rashed St., Nasr City

## **Appendices:**

### **APPENDIX – A**

#### **Job Description of current position as a General Director for Project Follow Up at HCWW:**

As General Director for Planning and Controls, I had the following role at the HCWW:

1. Establishing the Project Management and Control Units (PMcus) at the HCWW subsidiaries all over Egypt.
2. Monitoring the performance of those PMcus.
3. Establishing the performance measurement indicators for the different construction programs.
4. Supervising and following up the preparation of the fiscal year construction plans.
5. Establishing the reference rules for the master plans preparation.
6. Supervising the development of the feasibility studies.
7. Development of the periodical performance indicators reports.

### **APPENDIX – B**

#### **Job Description of my former position as a Controls Manager at EGEC:**

As a Controls Manager, I had the following role at EGEC:

1. Time-schedules structuring, review and evaluation,
2. Cost analysis, monitoring, control and cashflow management.
3. Systems Analysis and design for an in-house system for the overall control of the new Madinaty Project (owned by *Tal3at Mosstafa Group*). The system modules comprised Document Control, Scheduling, Invoicing, Risk Management, Cost Estimation and Control, Quality Administration, Resource Administration, and Performance Evaluation.
4. Preparation of the Quality and Safety Management plans,
5. Contract administration and claims evaluation, and
6. On-job training for the clients engineers.

### **APPENDIX – C**

#### **Job Description of my previous position as a Projects Director at NOPWASD:**

As a Project Director, I had the following role at NOPWASD:

1. Contacting NOPWASD construction managers in the different governorates of Egypt,
2. Monthly Collection and review of the projects data,
3. Sending the revised projects data to the Projects Monitoring and Evaluation Unit (PMEU) at the Ministry of Housing for evaluation
4. Feeding the CH2M Hill in-house made system for projects monitoring and evaluation (PRISM),
5. Conducting site visits for data quality assurance and control,
6. Coordination between NOPWASD and the Ministry of Housing,
7. Participated in the bid evaluation of the Project Management Consultants for the Presidential Campaign Program projects,
8. Conducted a number of lectures on project management for the governorates engineers, and
9. Established the Project Management and Follow Up Unit at NOPWASD.

### **APPENDIX - D**

#### **Brief About the *Customized Program for the Project and Construction Managers for the Arab Contractors Company:***

The program included 16 training modules:

- Quality management and professional ethics
- Safety plans and environmental awareness
- Contract administration
- Documentation of records and reports
- Coordination of construction activities, site layout, planning and productivity.
- Scheduling, Resource Management, and Project Control



- Construction activities
- Leadership and delegation, and time and organization management in construction industry
- Value engineering
- Construction planning and financial management
- Risk allocation and liability sharing
- Effective negotiation skills for construction engineers and managers
- Change orders and claims and disputes
- Advanced Materials and Their Site Applications. Newly-developed construction materials and techniques
- Quality control and assurance
- Responsibility, authority, and Project management

Those modules were applied on-site on the following pilot projects (2003 Prices):

- |   |                                  |
|---|----------------------------------|
| 1. <i>Olympic Sports Center, Borg El-Arab</i>   | (Project value = LE 88,000,000)  |
| 2. <i>26 July Corridor Project, Phase 3 - Part 2</i>  | (Project value = LE 75,000,000)  |
| 3. <i>Cairo Airport Terminal - Enabling Works</i>   | (Project value = LE 52,000,000)  |
| 4. <i>Greater Cairo Metro Project Phase 2C</i>  | (Project value = LE 46,000,000)  |
| 5. <i>Rolling Mill Plant, Abo Za3bal</i>  | (Project value = LE 188,000,000) |
| 6. <i>El-Gabal El-Asfar Waste Water Treatment Plant, Stage II - Contract 19</i>   | (Project value = LE 264,000,000) |
| 7. <i>The National Authority for Communication Regulation, Building (B4), Smart Village, 6<sup>th</sup> of October City</i> | (Project value = LE 21,427,703)  |
| 8. <i>Aton Museum, Menia</i>  | (Project value = LE 30,257,551)  |

#### **APPENDIX – E**

The courses served in different universities include:

- Financial Management and Accounting in Construction
- Project Financial and Scheduling Control
- Economic Analysis of Engineering Projects
- Management of Project Resources
- Material and Labor Management in Construction Projects
- Economic Management of Construction Equipments
- Principles and Practices of Construction Contract Management
- Practical Administration of Construction Contracts
- Tendering and Bidding in the Construction Industry
- Delay Analysis, Dispute & Claim Resolution in the Construction Industry
- Risk Management in Investment Projects
- Optimization Techniques for Decision Making in the Construction Industry
- Techniques of Planning, Scheduling and Control
- Safety Management in the Construction Projects

#### **APPENDIX - F**

**Brief About the Integrated Program for the PMP Certification; IPMP** for the Project Management Institute; PMI:

##### **I Compulsory Courses:**

IPMP 010 - Project Management Base of Knowledge  
IPMP 020 - Project Integration & Scope Management

##### **II Major Specialization Core Courses (the Student Selects Only Two)**

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| IPMP 030 - Time Management        | IPMP 035 - Safety Management        |
| IPMP 040 - Cost Management        | IPMP 045 - Environmental Management |
| IPMP 050 - Quality Management     | IPMP 055 - Financial Management     |
| IPMP 060 - Risk Management        | IPMP 065 - Claim Management         |
| IPMP 070 - Procurement Management |                                     |

##### **III Elective Courses (the Student Selects Only Two)**

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| IPMP 110 - HR Management            | IPMP 035 - Safety Management        |
| IPMP 120 - Communication Management | IPMP 045 - Environmental Management |
| IPMP 130 - Stakeholder Management   | IPMP 055 - Financial Management     |
|                                     | IPMP 065 - Claim Management         |

The IPMP 0X5 Courses are deliberately presented in both the Core and Elective Courses groups for more flexibility.

## **APPENDIX - G**

**Brief About the Professional Program in Tunnel Engineering; TUNL** for the Engineering and Science Services (ESS) Unit at the AUC.:

### **Core Courses:**

TUNL 010 - Principles and Construction Methods of Underground Structures  
TUNL 020 - Layout Planning for Underground Structures  
TUNL 030 - Geological and Geotechnical Investigation for Tunnels  
TUNL 035 - Principles of Electromechanical Systems for Underground Structures  
TUNL 040 - Quality, HSE, and Risk Management Considerations in Tunnel Construction

### **Elective Courses:**

#### **05x - Civil Construction Electives**

TUNL 050 - Construction of Micro & Cut-and-Cover Tunnels  
TUNL 055 - Construction of Large Tunnels  
TUNL 057 - Monitoring and Safety in Tunnel Construction

#### **06x - E/M Construction Electives**

TUNL 060 - Tunnel Electric and Communication Systems  
TUNL 063 - Tunnel Mechanical Systems  
TUNL 065 - Standard Operation & Maintenance Procedures for Tunnels  
TUNL 069 - Railway System and Rolling Stock

#### **07x - Project Management Electives**

TUNL 070 - Contractual Aspects for Tunneling  
TUNL 073 - Cost and Value Engineering in Tunneling  
TUNL 075 - Quality Management in Tunneling  
TUNL 077 - Health, Safety and Environmental Considerations in tunneling  
TUNL 079 - Risk Management for Tunnel Projects

#### **08x - Design Review Electives**

TUNL 080 - Analytical Design of Tunnels  
TUNL 083 - Numerical Modeling of Tunnels  
TUNL 085 - Design of Tunnel Electric Systems  
TUNL 087 - Design of Tunnel Communication Systems  
TUNL 089 - Design of Tunnel Mechanical Systems

## **APPENDIX - H**

**Brief About the The Professional Program in Infrastructure Asset Management; NFRA** for the Engineering and Science Services (ESS) Unit at the AUC.:

### **Core Courses:**

NFRA 010 - Principles of Infrastructure Asset Management  
NFRA 020 - Infrastructure Design for Sustainability  
NFRA 030 - Infrastructure Asset Financial Management and Practices  
NFRA 040 - Infrastructure Asset Maintenance, Planning and Scheduling

### **Elective Courses:**

NFRA 050 - Computer Applications for Infrastructure Asset Management  
NFRA 060 - Infrastructure Asset Evaluation and Rehabilitation  
NFRA 070 - HSE Management for the Infrastructure Industry  
PRMG 050 - Project Feasibility Studies  
PRMG 070 - Maintenance Planning for Mechanical and Civil Engineers  
PRMG 095 - Project Risk Management

## **APPENDIX - I**

**Brief About the Professional Program in International & Construction Contract Administration; PACT** for the Engineering and Science Services (ESS) Unit at the AUC.:

### **Core Courses:**

PACT 010 - Principles and Practices of Contract Management  
PACT 020 - Guidelines to the Contracting Procedures of the International Financing Agencies  
PACT 030 - Practical Administration of Construction Contracts  
PACT 040 - Computer Applications for Document Control and Contract Management

**Elective Courses:**

PACT 050 - Effective Management of the PPP Contracts  
PACT 060 - Professional Formulation of the International Contracts  
PACT 070 - Delay Analysis, Claims & Arbitration Management  
CLAC 025 - Comparative International Contracts (FIDIC Forms)  
PRMG 080 - Project Bids and Contracts

**APPENDIX - J**

**Breif About the Professional Program for Construction Site Management; SITE** for the Engineering and Science Services (ESS) Unit at the AUC.:

**Core Courses :**

SITE 010 - Project Start-Up and Close-Out Practices  
SITE 020 - Effective Construction Coordination and Management  
SITE 030 - Construction Techniques and Methods - Level I  
SITE 040 - Optimization Techniques for Decision Making in the Construction Industry

**Elective Courses :**

SITE 050 - Economic Management of Construction Equipment  
SITE 060 - Code of Practice for Construction Management  
SITE 070 - Stakeholders Management in the Construction Industry  
PRMG 015 - HR for Project Management  
PRMG 045 - Project Communication Management  
CLAC 040 - Claims & Disputes in the Construction Industry

**APPENDIX - K**

**Breif About the Advanced Program for Mastering Construction Site Management; MSTR** for the Engineering and Science Services (ESS) Unit at the AUC.:

**Core Courses :**

MSTR 010 - Analysis and Design of Construction Operations  
MSTR 020 - Material and Labor Management in Construction Projects  
MSTR 030 - Control Management in a Construction Project  
MSTR 040 - Environmental Management in the Construction Industry

**Elective Courses :**

MSTR 050 - Requirement Management in the Construction Industry  
MSTR 060 - CTM - Tunnels & Pre-stressed Concrete Structures  
PACT 040 - Practical Administration of Construction Contracts  
PRMG 030 - Project Budgeting and Financial Control  
PRMG 055 - Project Procurement Management  
PRMG 099 - Value Analysis for Engineering Projects