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# **KARIM EL-DASH**

PHD; PMP; RMP; CCE; EVP; CEP; PSP; AVS; ACI Arb  
Professor of Construction Management

## **Curriculum Vitae**

**Keldash**

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Professor of Construction Management  
(10 / 11 / 1961)

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## **EDUCATION**

- **Ph.D.** (December 1995), College of Engineering, *North Carolina State University*, Raleigh, North Carolina, USA.
- **M.S.** (December 1988), Department of Structural Engineering, *Ain Shams University*, Cairo, Egypt.
- **B.S.** (June 1984), Department of Structural Engineering, *Ain Shams University*, Cairo, Egypt.

## **ACADEMIC EXPERIENCE**

### **Banha University, Civil Engineering Dept., Cairo, Egypt**

- **Full Professor** (September 2008 – till now)
- **Associate Professor** (March 2003- September 2003)

Teaching and directing graduate and undergraduate courses of:

- Construction Project Management
- Total Quality Management
- Construction Technology
- Construction Management
- Construction Cost Control
- Feasibility Studies in Construction Projects
- Design of Reinforced Concrete Structures.

- **Assistant Professor** (December 1997 – March 2003)
- **Assistant Lecturer** (March 1989 - August 1991)
- **Teaching Assistant** (October 1984 - March 1989)

## **College of Technological Studies, Kuwait (September 2003-August 2013)**

Teaching and directing course of:

- Project Management
- Theory of Structures
- Design of Steel Structures
- Design of Reinforced Concrete Structures
- Quality Control
- Quantity Surveying
- Soil Mechanics and Foundations
- Planning of Roads

## **Misr International University**

- Assistant Professor *(October 1999 – June 2003)*

## **Arab Academy for Engineering and Technology, Alexandria, Egypt**

- Assistant Professor *(October 1997 – June 1998)*

## **North Carolina State University, Raleigh, USA *(August 1991 - December 1995)***

- Teaching Assistant
- Lab Instructor
- Research Assistant

## **CONSTRUCTION ENGINEERING & MANAGEMENT**

- Planning & Scheduling Professional; **PSP**, by AACEI Association for Advancement of Cost Engineers - International, USA (January 2014)
- Earned Value Professional; **EVP**, by AACEI Association for Advancement of Cost Engineers - International, USA (February 2013)
- Associate Member; **ACI Arb**; Chartered Institute of Arbitration, England, 2012.
- certified estimating professional, **CEP**, by AACEI Association for Advancement of Cost Engineers - International, USA (February 2011)
- RISK MANAGEMENT PROFESSIONAL, **PMI-RMP**, by Project Management Institute, USA (November 2010)
- CERTIFIED COST PROFESSIONAL, **CCP**, by AACEI Association for Advancement of Cost Engineers - International, USA (December 2008)
- Certified Associate Value Specialist, **AVS**, by SAVE International (February 2008)
- CERTIFIED **CONSULTANT ENGINEER**, Design of Reinforced Concrete Structures, EGYPT (October 2001)
- CERTIFIED PROJECT MANAGEMENT PROFESSIONAL, **PMP**, by Project Management Institute, USA (March 2000)
- CERTIFIED **E.I.T.** from North Carolina Professional Engineers Association (January 1996)
- DESIGN AND MANAGEMENT OF MANY PROJECTS- For example:
  - **Ministry of Information Complex Studios**, Shuwaikh, over 4500 m<sup>2</sup> of area. The complex included a major studio of 20X30 m area and 9 m height. The project included a smaller studio and all required technical and administrative facilities.
  - **Future Mall, Rayy**, over 12000 m<sup>2</sup> of building area. The building included two basement floors in addition to four upper floors for the parking, administration, and stores.
  - **BADR DETERGENTS FACTORY** with four-story structure spread over 2800 m<sup>2</sup> of area. The structure was of short span slabs supported on heavy beams spaced at 2 meters with frame action.
  - **AL-AZHAR SCHOOL AT KALYOUB**. The school extends over a 2500 m<sup>2</sup> of area of buildings with a basement for praying, a ground floor, and four upper stories. The school was of U-shape with two expansion joints.
  - **HURGHADA COUNTRY HOTEL**. The hotel consists of 64 rooms and facilities spread over 2200 m<sup>2</sup> of building area with adjacent minor facilities structures. The hotel was of ground floor plus four upper stories with one expansion-joint near the middle of its length.

**PROJECT ENGINEERING & MANAGEMENT** tasks including preparing bid documents, specifications, planning for time schedule, cost, and resources, and project control for the previous issues. He designed and participated in the management and design of many construction projects including:

- Fifteen projects for **EXXON-MOBIL INTERNATIONAL** Company in Egypt. Tasks include preparing project time schedules, control reports, bidding and contract documents, value engineering, coordination, staffing, design of reinforced concrete structures, design and detailing, structures condition assessment, etc.
- Seven projects for **TOTAL INTERNATIONAL** Company in Egypt. Tasks include preparing project time schedules, control reports, bidding and contract documents, value engineering, coordination, staffing, design of reinforced concrete structures, design and detailing, structures condition assessment, etc.
- **POLICE UNION STADIUM** with capacity of 5,000 spectators, Cairo, Egypt – steel structure. The design of the cladding structure was a complex arch-truss steel structure of 56.00 m span in both directions supported on four points. The structure contains about 430 tons of steel elements.
- **COURT COMPLEX EXPANSION, ALEXANDRIA.** The project included adding four courts to the well-constructed complex. The addition was during the finishing phase of the main project. The structure consists of composite floors supported on steel trusses resting on corbels fitted to steel jackets around the pre-constructed concrete columns.
- **AL-RAJHY BANK AND ADMINISTRATION BUILDING**, Jeddah, KSA – reinforced concrete structure. This project included a Rajhi Bank branch in the lower three floors and a multi-story administrative building there above. In the rear area of the main building there was a parking deck of eight floors. The area of the main building was of 4300 m<sup>2</sup> and that of the parking deck was of 2600m<sup>2</sup>.
- **INDUSTRIAL COMPANY FOR AUTOMOBILE BODIES**, Sixth of October. The factory was spread over 5600 m<sup>2</sup> of one story structure and many complex foundations to support the complicated situations of the giant compressing machines.
- **SIXTH OF OCTOBER FACTORY FOR MATTRESSES.** The factory was of ground floor and four-story flat slab reinforced concrete structure built over 3600 m<sup>2</sup>.
- **BANK AL-TAAMEER** at Nasr City. The assigned task was to design an elevated passage at the ninth and tenth floors of two high-rise buildings of the project. The passage was designed as two-story curved truss supporting the composite flooring of the structure.
- **TABA FIVE STARS HOTEL, TABA.** The assigned task was to design and detail the roof structure of a patio with 6000 m<sup>2</sup> and spanning at 52 m. The steel structure designed was of trusses with the big spans as long as 52 m supported on end trusses rested on reinforced concrete cantilever elements.
- **PRECAST CONCRETE WALLS OF EL-AIN EL-SOKHNA ELECTRIC PLANT.** The project included the preparation of detailed drawings for about 4,000 precast reinforced concrete panels for most of the building in the electrical plant. The total number of sheets produced in the output was 668.

**ARAB AMERICAN ENGINEERS, KUWAIT**

*(February 1996 - December 1996)*

- Structural consultations and design.

Assessed and evaluated structural and material condition and designed strengthening where needed as well as recommended maintenance of 25 buildings at Kuwait University, Kuwait.

**VSL CORP., RALEIGH, USA**

*(August 1994 - December 1995)*

- Involved in the design of pre-stressed bridge and the development of a new system for the end anchorage of pre-stressed concrete girders for bridges.

**ENG. NABIL ABU-EL-NAGA CONSULTATIONS**

*(January 1991 - July 1991)*

- Designed the reinforced concrete structure of Aswan Plaza Hotel, Aswan, Egypt. The project included a 16-floor and 3-basement floors over 2,600 m<sup>2</sup>. It included three swimming pools, a staff residency building of three floors, and a parking deck.

**SABBOUR P. B.**

*(July 1990 - August 1990)*

- Participated in the design of super-structures and foundations of the Electric Power Plant at North Cairo. The tasks were concerning the capacities and the size of the piles to be utilized in all of the building considered in the project.

**PROF. M. S. SOLIMAN CONSULT.**

*(April 1988 - May 1991)*

Participated in the design of many super-structures, as well as foundations, of bridges, public buildings, gymnastics arena, electric plants, high-rise buildings, and residential buildings; for example:

- Junction-4 Bridge at El-Zawya, Libya. The project was of R.C. structure with box section and continuous beams of 30 m spans.

**PROF. M. UWEIDAH CONSUL.**

*(March 1987 - December 1987)*

- Participated in the design of a Parking deck and housing units in a recreational village.

## ***RISK MANAGEMENT***

- Risk Management Professional (PMI-RMP), Project Management Institute, USA - 2010.
- Risk Assessment for structural integrity of KH8 building, Kuwait University – 1997.
- Risk Assessment for the construction method of foundations of Electrical Plant, Shobra Alkhaima, Egypt, 1999.
- Risk Assessment for manufacturing, shipping, handling, and installation of precast concrete elements of Ain Sokhna Electrical plant, Egypt – 2001.
- Risk Assessment for installation methodology of fuel tanks in Exxon-Mobile reservoir, Suez, Egypt -2001.
- Risk Assessment analysis for the construction method of the foundations and retaining wall of Mishrif Pump Station, Kuwait – 2002.
- Fifteen projects for EXXON-MOBIL INTERNATIONAL Company in Egypt – 1996 to 2003.
- Seven projects for TOTAL INTERNATIONAL Company in Egypt – 2000 to 2003.
- Risk Assessment analysis for the construction method of the foundations and retaining walls of Future Mall, Kuwait – 2008.
- Risk Assessment for oil pipeline intersections with infrastructure projects, Kuwait – 2010 – 2012.
- Risk Assessment of new 4-lane highway parallel to oil pipelines, North Ahmady, KOC, Kuwait, 2011.
- Risk Assessment of 14-Shelter Construction Project through Mina Al-Ahmadi, Kuwait in coordination with UNETEC and Kuwait National Petroleum Company.

### **Risk Management Researches**

- El-Dash, K. M. and Abdul Monem, M. S., (2004), "Analysis of Potential Risks in Civil Infrastructure Projects in Egypt", Proceedings of III IPMA-ICEC International Expert Seminar, Bilbao, Spain, 6-8 October.
- El-Dash, K. M., Abd\_raboh, E, El-Dars, Z., (2006), "Risk Management in the Design Phase of Large-Scale Construction Projects", Proceeding of IPMA 20th Annual World Congress, Shanghai, China, 15-17 October.
- El-Dash, K. (2008), "Construction Risk Management: Between Application and Education", 12th International Conference on Project Engineering, 9-11, July, Zaragoza, Spain.



## ***ENVIRONMENTAL IMPACT ASSESSMENT***

- EIA study for the construction of a 4-lane highway north Ahmadi, Kuwait. The study included the impact of sand moving effect and all other common factors.
- EIA study for the development of Al-Bedaa Roundabout, Salmiya, Kuwait.
- EIA study for the development of Al-Ghouss Highway (30 km), Mubarak Al-Kabeer, Kuwait.

## ***VALUE ENGINEERING***

- Certified Associate Value Specialist, AVS, SAVE International, USA – 2008.
- Value Engineering course and workshop, certified program, Manama, Bahrain, 2008.
- Value Engineering study for San Stefano Complex and Four Seasons Hotel, Alexandria, Egypt – 2001
- Value Engineering study for a 37-floor Steel Structure Building, Egypt – 2002
- Value Engineering study for Fahaheel – Fourth Ring Road Intersection, Kuwait - 2006.
- Value Engineering study for Albeda' Roundabout, Kuwait – 2007.
- Value Engineering study for 1<sup>st</sup> ring road, Sheraton Roundabout, Kuwait – 2008.
- Value Engineering study for Al-Jahra Culvert Project, Kuwait – 2011.
- Value Engineering study for Future mall, Al-Ray, Kuwait – 2012.

## **TRAINING**

- Participated in many **Project Management** and **Construction Engineering** training programs (more than 6000 hours since 1996) for major firms and associations in Egypt and Gulf countries like:
  - PACTIV – Alexandria -Egypt
  - RAYA Integration - Egypt
  - Arab Contractors - Egypt
  - Vodafone telecom - Egypt
  - ORASCOM - Egypt
  - Alexandria for Real Estate Investment - Egypt
  - Alexandria General Organization for Sanitary Delivery - Egypt
  - NCR international - Egypt
  - Egyptian Company for Cement - Egypt
  - Ministry of Public Works – Kuwait
  - Ministry of Awqaf – Kuwait
  - Ministry of Defense – Kuwait
  - Kuwait Engineers Society - Kuwait
  - TEXACO - Kuwait
  - VIVA – Kuwait
  - KNPC – Kuwait
  - Ministry of Housing – Libya
  - Libyana – Libya
  - Qatar Petroleum - Qatar
  - Zain – Lebanon
  - ORANGE – Jordan
  - Municipality – Dubai
  - Municipality – Abu Dhabi
  - ARAMCO – Saudi Arabia
  - Royal Commission – Saudi Arabia

**Training sessions included** but not limited to:

- \* **Preparation course for International Project Management Association (IPMA) Certification Exams.**
- \* **Preparation course for Project Management Professional (PMP)**
- \* **Cambridge University Diploma of Project Management** at International Marketing and Management Institute, IMI, Cairo, Egypt.
- \* **Preparation course for Certified Cost Consultant/ Engineer (CCP).**
- \* **Preparation course for Planning & Scheduling Professional (PSP)**
- \* **Preparation course for Certified Estimating Professional (CEP).**
- \* **Preparation course for Earned Value Professional (EVP).**
- \* **Introduction to Project Management;** Definitions, Scope, Context, Integration, Contracts, Planning, Control
- \* **Risk Management;** Definitions, Uncertainty, Sources, Qualitative analysis, Quantitative analysis, Response, Control
- \* **Project Planning;** What to plan?, Requirements, Scheduling, Control
- \* **Scheduling Tools and Techniques;** Gantt, CPM, PERT, LOB, Control
- \* **Cost Management;** Estimate, Resources, Budgeting, Cost control
- \* **Value Engineering;** Definition, Functions, Phases, Innovation, Applications
- \* **Supervision Skills in Construction Projects;** Contracts, Specifications, Communications, Leadership, Creative thinking, Decision Making
- \* **Design of Reinforced Concrete Structures;** Loads, Structural Analysis, Bending Moment, Shear Force, Reinforcement, Ultimate Strength
- \* **Statistical Methods for Decision Making;** Data Collection, Descriptive Analysis, Probability Theory and Distribution, Threshold and Tolerance in DM.
- \* **Communication Management;** Models, Information, Requirements, Distribution, Archiving.
- \* **Management of Civil Infrastructure Projects;** Introduction, Planning, Time, Cost, Quality, Communication, Risk, Contracts
- \* **Preparing and Writing reports;** Types, Contents, Style, Common mistakes, Presentation

## **AFFILIATIONS**

- Member of Syndicate of Engineers in Egypt since 1984. (M# 276/11)
- Member of Project Management Institute, USA, since 2000. (PMIM# 195033)  
(Certified Project Management Professional; PMP # 23743 - March 2000)
- Member of American Society of Civil Engineers, ASCE, since 2001. (ASCEM# 381864)
- (Board member of ASCE- Egypt section; 2002-2003)
- Member of American Concrete Institute, ACI, since 1993. (ACIM# 133145)
- Member of Association for Advancement of Cost Engineering International, since 2007,  
(AACEIM # 41185)
- Director of Education and Training AACEI-Kuwait, since May 2010.

## ***HONORS AND AWARDS***

- Assistantship and Tuition Waiver from North Carolina State University as a Ph.D. student (January 1993 - December 1995).
- Peace Fellowship from US AID and the Egyptian Government to collect data for Ph.D. at NCSU (August 1991 - August 1993).
- B.S. with Honors from Ain Shams University Cairo, Egypt.
- Egyptian Government Outstanding Academic Performance Award throughout the undergraduate study at Ain Shams University, Egypt.
- Chairperson for High-strength Concrete session at the Confined Concrete Symposium, Changsha, China, 11-13 June, 2004.
- A Mention for the paper titled "Competitive Conception of Large-Scale Projects in Kuwait" presented and published at the Congress of Project Engineering, Bilbao, Spain, 6-8 October, 2004.

## **PUBLICATIONS**

1. Zidan, M. K. and **El-Dash, K. M.** (1989), "Behavior of Corrugated Steel Shear Diaphragm Filled with Lightweight Concrete", *Ain Shams University Civil Engineering Scientific Magazine*, March 1989.
2. **El-Dash K. M.** and Ahmad, S. H. (1994), "A Model for the Stress-Strain Relationship of Rectangular Confined Normal and High-Strength Concrete Columns", *Rilem, Materials and Structures*, 27, pp. 572-579.
3. **El-Dash, K. M.** and Ahmad, S. H. (1995), "A Model for the Stress-Strain Relationship of Spirally Confined Normal and High-Strength Concrete Columns", *Magazine of Concrete Research*, 47, No. 171, pp. 67-74.
4. Ahmad, S. H.; Parks F., and **El-Dash, K. M.** (1995), "Web Reinforcement Effect on Shear Capacity of Reinforced High-Strength Concrete Beams", *Magazine of Concrete Research*, 47, No. 172, pp. 227-233.
5. **El-Dash, K. M.** (1997), "Behavior of Confined High-Strength Lightweight Aggregate Concrete Columns", *INTERBUILD 97*, Cairo.
6. El-Sayyad, H. I. and **El-Dash, K. M.** (1999), "Concrete Confined Externally by Steel Straps", *Al-Azhar University, Civil Engineering Research Magazine*, Vol. 21, No.(1), January 1999, pp. 159-175.
7. Khaloo, A. R., **El-Dash, K. M.**, and Ahmad, S. H. (1999), "Model for Lightweight Concrete Columns Confined by Either Single Hoops or Interlocking Double Spirals", *ACI Structural Journal*, V.96, No. 6, November-December, pp. 883-890.
8. **El-Dash, K. M.** (2000), "Enhancing Construction Management Retention by Enhancing Communication Skills", *American Society for Engineering Education, ASEE Conference 2000*, St. Louis, USA, 18-21 June.
9. Khaloo, A. R., Ahmad, S. H., and **El-Dash, K. M.**, (2000), "Behavior of Confined High-Strength Lightweight Concrete Columns", *Asian Journal of Civil Engineering, Building and Housing*, Vol. 1, No., pp. 13-38.
10. **El-Dash, K. M.** and El-Mahdy, O. O. (2001), "Towards A Comprehensive Stress-Strain Model For Confined Concrete Columns", *The ninth Ain Shams International structural and geotechnical engineering conference*, Cairo, Egypt, 10-12 April.
11. **El-Dash, K. M.** and Soliman, M. S. (2001), "Launching A Collaborative Environment for the Construction Industry in the Middle East", *Scientific Magazine of Ain Shams University*, Vol. 36, No. 3, pp. 421-435.
12. **El-Dash, K. M.** (2002), "Reliability-Based Analysis of Precast Concrete Inserts", *Scientific Magazine of Ain Shams University*, Vol. 37, No. 1, pp. 33-50.
13. **El-Dash, K. M.** (2002), "Value-Based Design of Steel High-Rise Buildings", *The Third Middle East Regional Civil Engineering Conference, ASCE – Egypt Section, Cairo, April, 8-10.*
14. **El-Dash, K. M.** (2002), "Assessment of Management Performance for Infrastructure Construction Projects in Egypt", *Scientific Magazine of Ain Shams University*, Vol. 37, No. 2, pp. 189-204.
15. **El-Dash, K. M.** and Ramadan, M. O., (2002), "Contribution of Aggregate Type to the Behavior of Confined Concrete Columns", *Scientific Magazine of Ain Shams University*, Vol. 37, No. 4, pp. 45-60.

16. **El-Dash, K. M.** and Attalla M., (2003), "Delivery of Municipal Infrastructure Projects: Critical Parameters for Efficient Management", COH-291, Proceedings of *the Annual Conference of the Canadian Society for Civil Engineering*, Nouveau-Moncton, Brunswick, Canada, June, 4-7.
17. **El-Dash, K. M.** and El-Mahdy, O. O., (2004), "Modeling the Stress-Strain Behavior of Confined Concrete Columns", Proceeding of the International Symposium on Confined Concrete, 11-13 June, Changsha, China.
18. **El-Dash, K. M.** and Abdul Monem, M. S., (2004), "Analysis of Potential Risks in Civil Infrastructure Projects in Egypt", Proceedings of NORDNET 2004, International Conference for Project Management, 29 September – 2 October 2004, Helsinki, Finland.
19. **El-Dash, K. M.**, Al-Hubail, J. A., Al-Sharrah, R., and Al-Hubail, E. (2004), "Competitive Conception of Large-Scale Projects in Kuwait", Proceedings of III IPMA-ICEC International Expert Seminar, Bilbao, Spain, 6-8 October.
20. **El-Dash, K. M.** and Abdul Monem, M. S., (2004), "Analysis of Potential Risks in Civil Infrastructure Projects in Egypt", Proceedings of III IPMA-ICEC International Expert Seminar, Bilbao, Spain, 6-8 October.
21. **El-Dash, K. M.** and Ramadan, M. O., (2006), "Effect of Aggregate on the Performance of Confined Concrete", *Journal of Cement and Concrete Magazine*, Volume 36, Issue 3, Pages 599-605
22. Al-Hubail, J. A. and **El-Dash, K. M.**, (2006), "Managing Disposal of Water Produced with Petroleum in Kuwait", *Journal of Environmental Management*, Volume 79, Issue 1, Pages 43-50.
23. **El-Dash, K. M.**, (2006), "Assessing the Efficiency of Human Resources Management In Construction Projects", Proceeding of IPMA 20<sup>th</sup> Annual World Congress, Shanghai, China, 15-17 October.
24. **El-Dash, K. M.**, Abd\_raboh, E, El-Dars, Z., (2006), "Risk Management in the Design Phase of Large-Scale Construction Projects", Proceeding of IPMA 20<sup>th</sup> Annual World Congress, Shanghai, China, 15-17 October.
25. **El-Dash, K. M.**, (2007), "Assessing Human Resource Management in Construction Projects in Kuwait", *Journal of Asian Architectural and Building Engineering*, Vol. 6, Issue 1, pp. 65-71.
26. **El-Dash, K.**, (2008), "Service Life Prediction of Buildings Exposed to Severe Weather", PM-04 - 4th SCPM & 1st IPMA/MedNet Conference, 29-31 May, Chios, Greece .
27. **El-Dash, K.** (2008), "Construction Risk Management: Between Application and Education", 12<sup>th</sup> International Conference on Project Engineering, 9-11, July, Zaragoza, Spain.
28. **El-Dash, K.**, (2011), "Service Life Prediction of Buildings Exposed to Severe Weather", *Journal of Asian Architectural and Building Engineering*, May 2011, pp. 211-215.
29. Mahfooz, W.; **El-Dash, K.**; and Ramadan, O.; (2013), "Construction Activities Duration Patterns in the Middle East", *International Journal of Construction Engineering and Management*, Volume 2, Number 4.

## **THESES**

- **El-Dash, K. M.**, “Corrugated Steel Shear Diaphragm with Lightweight Concrete Fill”, M.S., Department of Structural Engineering, *Ain Shams University*, Cairo, Egypt, October 1988.
- **El-Dash. K. M.**, “Strength and Ductility of Confined High-Strength Lightweight Aggregate Concrete Columns”, Ph.D., Department of Civil Engineering, North Carolina State University, Raleigh, USA, October 1995.
- Abdel Rahim, M. S., “Risk Effect on Capital Investment Decision for Infrastructure Projects”, M.S. Thesis was advised by **El-Dash, K. M.**, Zagazig University, August 2004.
- Sayem, A. A., “Development of Integrated Model for Cost Estimating and Budgeting for Building Projects”, M.S. Thesis was advised by **El-Dash, K. M.**, Helwan University, February 2005.
- Hamdy, E. A., “Risk Management in the Design of Large Projects”, M.S. Thesis was advised by **El-Dash, K. M.**, Al-Azhar University, February 2006.
- Al-Ostath, M. H., “Determination of Critical KPI’s in Construction Projects in Kuwait”; M.S. Thesis was advised by **El-Dash, K. M.**, Arabian Gulf University, Bahrain, February 2011.
- Hamdy, E. A., "Proposed Methodology for Developing Consulting Firms' business plans" PhD Thesis advised by **El-Dash, K. M.**, Al-Azhar University, October 2013.
- Mahfouz, W., “RISK-BASED PERCEPTION OF CONSTRUCTION PROJECT SCHEDULE CONFIGURATION”, PhD Thesis advised by Ramadan, O, and **El-Dash, K. M.**, Cairo, University.