

Ahmed Hassanein, Ph.D., P.Eng.

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Summary of Qualifications

Over 20 years of experience in construction & civil engineering, balancing academic & professional careers, with a proven track record in teaching, research as well as a practicing professional & consulting. Current interests include responsible business practices, sustainable construction, bottom of the pyramid investment & low-income housing.

Education

1998 – 2003	Ph.D. in Construction Engineering & Management (Planning, Scheduling & Control of Repetitive Construction Projects) – Concordia University, Montréal, QC, Canada
1995 – 1997	M.Eng. in Structural Engineering – McMaster University, Hamilton, ON, Canada
1990 – 1995	M.Sc. in Structural Engineering – American University in Cairo, (AUC), Egypt
1984 – 1989	B.Sc. in Civil Engineering – Cairo University, Cairo, Egypt

Mabani Consulting & Short-Term Assignments

Consultant Technical University, Berlin / DAAD

2012 – Current

- Working with TU-Berlin & the German Academic Exchange Service (DAAD) on developing Technical & Vocational Training programs in the Middle East, with a focus on Egypt, in construction trades.

Instructor Projacs

2013

Instructor of a 3-day course entitled "Building Information Modeling: Vision, Strategy & Implementation" for executives & managers, The Millennium Hotel, Doha, Qatar, May 19 – 21, 2013.

Consultant UNDP Regional Office, Egypt

2012

- Identifying current obstacles facing the private construction industry, financial institutions & civil society organizations working on informal settlement upgrade & provision of low income housing.
- Investigating the potential for developing successful tripartite partnerships to provide solutions for the local housing crisis.
- Investigating the potential role of the private sector in provision of affordable housing units and resolving the unemployment problem.

Consultant New York University (NYU), USA

2011

- Assisting in identifying the ideal setup for the success of tri-partite solutions in MENA region with Wagner School for Public Service & Research Centre for Leadership in Action, NYU.

Executive Education IEEI & the Gerhart Centre, AUC, Egypt

2010 – Current

In collaboration with the International Executive Education Institute (IEEI) & the Gerhart Centre for Philanthropy & Civic Engagement

- **June 6-8, 2010** Lead Instructor on a 3-day executive education course on Sustainability in the Construction Industry, Capital Club, Dubai International Financial Center (DIFC), Dubai, UAE.
 - **March 19, 2011** Instructor on a 1-day seminar on sustainable construction in the Middle East, in coordination with Jordan GBC, Columbia University Middle East Research Centre, Jordan.
 - **June 9, 2011** Instructor on a 1-day seminar on sustainable construction in the Middle East, in coordination with Emirates GBC, Emirates GBC HQ, Dubai, UAE.
 - **October 27, 2011** Instructor on a half-day seminar on life cycle costing (LCC) in construction & challenges, opportunities & potential in the MENA region & GCC countries, in coordination with Emirates GBC, Dubai, UAE.
 - **January 31, 2012** Instructor on a one-day seminar on LCC in construction & challenges, opportunities & potential in the Mesopotamia, in coordination with Jordan GBC, Amman, Jordan.
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- Senior Consultant** Gerhart Centre, AUC, Egypt **2009 – Current**
- Conducting research on sustainable construction in the MENASA region & affordable housing.
 - Conducting research with industrial partners to improve their sustainability management practices & writing case studies promoting sustainable construction & social responsibility.

- Project Management Consultant** Orascom Housing Communities, Egypt **2008**
- Improving construction efficiency through value engineering & lean construction principles.
 - Conducting EIA studies to compare between alternate design alternatives
 - Developing efficient resource-driven schedules & tight time-&-cost control measures.
 - Developing procedures to reduce cost through waste reduction & waste-based management.

- Adjunct Assistant Professor** Nile University, Cairo, Egypt **2008 – 2010**
- Supervising graduate students researching sustainable construction & affordable housing.
 - Teaching the following graduate courses: Project Management; Engineering Economics.

- Part-Time Lecturer** Cairo University, Egypt **2008**
- Teaching the following courses: Introduction to Construction Engineering; Economic Engineering.

- Consultant** Ahmed Abdel-Warith Consulting Engineers (AAW), Egypt **2007 – 2008**
- Developing GIS platform to manage water supply networks in Rwanda.

- Project Manager, International Operations** AAW, Cairo, Egypt **2007**
- Project Manager of a world-class multi-use development project (696 acres) in New Cairo, Egypt.
 - Developing an organizational structure for the Owner to self-manage the O&M of the facility.
 - Financial & technical proposal preparation & manpower demands forecasting for infrastructure projects in Rwanda, Sudan, Zimbabwe & Botswana.

Employment History

Associate Dean, Undergraduate Studies and Administration, School of Business

American University in Cairo, Egypt **2014 – current**

The AUC's School of Business, the only Triple-Crowned business school in the Arab World, is composed of three departments; Accounting, Economics and Management. Responsibilities include:

- Administration of School including staffing, budgeting, school triple accreditation, and curriculum development.
- Participating in setting School strategy and implementation
- Supporting all undergraduate student development activities, including clubs and competitions.
- Representing the School in national and international events.

Courses Taught

- Undergraduate: Internship and Career Development, Management Fundamentals.

Assistant Professor American University in Cairo, Egypt **2013 – 2014**

Joint appointment to the Departments of Management and Construction and Architectural Engineering. Responsibilities include:

- Heading Consulting Committee at School of Business, member of Clean and Green Committee at University.
- Dir. Of Outreach and Partnerships for Entrepreneurship and Innovation Program
- Teaching Construction-related courses within the MBA Program (in the Dept. of Mgmt), as well as graduate and undergraduate Construction Engineering courses (in the Dept. of Construction and Architectural Engineering).

Research Interests

- Asset management & infrastructure investment decisions.
- Economics of sustainable construction methods and practices.
- Anti-corruption measures for private sector.
- Social entrepreneurship.
- Methodologies to reduce construction costs for low income housing developments.

Courses Taught

- Undergraduate: Engineering Economy.
- Graduate: Advanced Construction Management; Construction Management and Contracts in Construction Industry.

Project Controls Manager Qatari Diar R. E. Investment Co. **2008 – 2013**

- Managing Project Controls (Cost estimating & Control, Planning & Scheduling, & Doc Control).
- Monitoring Projects' progress through inception, feasibility, design & construction.
- Assisting in delay analysis & claim analysis, as well as identifying sources of cost-overrun, if any.
- Conducting value engineering studies through a sustainability lens.
- Assisting in developing Scope of Work & Requests for Proposals for Consultants & Contractors.
- Evaluating Contractors' & Consultants' prequalification documents (technical & financial).
- Developing controls procedures to increase control & streamline flow of operations.
- Overseeing the development of projects' cash flows & updating financial models & budget.

Assistant Professor American University in Cairo, Egypt **2006 – 2008**

A) Research Interests

- Asset management & infrastructure investment decisions.
- Resource optimization for repetitive projects.
- Methodologies to reduce construction costs for low income housing developments.

B) Courses Taught

- Undergraduate: Introduction to Construction Management & Cost Estimating; Construction Contracts, Specs & Bids; Engineering Economics; Practical Training & Engineering Ethics.
- Graduate: Advanced Construction Management; advanced Engineering Economics.

Assistant Professor University of Nevada, Las Vegas, U.S.A. **2005 – 2006**

A) Research Interests

- Researching methodology to accurately forecast highway construction costs.
- Researching crew configuration methodologies to optimize resource utilization.

B) Courses Taught

- "Construction Estimating"- graduate & undergraduate
- "Construction Scheduling & resource optimization" - graduate & undergraduate
- "Research Methods in Construction Management" - graduate

Post Doctoral Fellow/Part-Time Lecturer Concordia University, Canada **2003 – 2005**

A) Research Interests

As part of collaboration programs with a major Canadian E/P/C firm:

- Employing GIS to optimize earthmoving operations for Trans-Canada Highway, NB, Canada.
- Developing a risk management program.

B) Courses Taught

- Undergraduate: Principles of Engineering Management & Economics; Construction Engineering
- Graduate: Construction Processes; Building Economics I.

Senior Planner SNC-Lavalin, Montréal, Québec, Canada **2001**

- Defining activities & assigning resources for a major water pipeline rehabilitation project in the Middle East using the program I developed for my PhD thesis.

Claim Reviewer Cogerec Consultants Ltd, Montréal, Canada **1998**

- Revision & evaluation of documents for claim analysis.

Executive Manager Quality Control, Cairo, Egypt **1992 – 1995**

- Managing operations to supply petrochemical clients with weld and paint inspectors.

Civil Engineer Engineering Consultants Group (ECG), Cairo, Egypt **1989-1992**

- Supervising the construction of multiple projects in Egypt.
- Identifying potential sites for DANIDA for the construction of sewage treatment plants throughout Egypt & prioritizing candidate projects.

Professional Affiliations

- Member of Steering Committee for EFMD's Entrepreneurship Education **(2015 – Current)**
- Member of Advisory Committee for AACSB's Europe, Africa and Asia Accreditation Conference **(2016 – Current)**
- Editorial Board Member at EurAsian Journal of Leadership.
- Certified Professional Engineer in Ontario, Canada (#90515305).
- Member of: Egyptian Junior Businessmen Association (EJB); Association for the Advancement of Cost Engineering International (AACEI); & Canadian Society for Civil Engineers (CSCE).

Other Activities

Consultant/Researcher UNDP / AACI

2011 – Current

- Consultant among a select group of international & Arab experts developing training manuals to aid private & public sectors to combat corruption with a focus on construction.

Consultant Humboldt-Viadrina / EJB

2012 – 2015

- Assisting in the development of incentives & disincentives structures for SME's that would be compatible with the Egyptian construction industry & would be effective in combating corruption.

Head of Sustainability Committee Gezira Sporting Club, Egypt

2010 – 2012

- Improving the sustainability of the 150-Acre club through reducing energy & water demands, introducing recycling & waste reduction measures, awareness raising, using renewable energy.

Talks at International Conferences

- "The Role of Business Schools, as Responsible Institutions, in Making the World a Better Place", Part of Holy Spirit University of Kaslik (USEK)'s Annual Conference Corporate Governance Across Ethics, Culture and Citizenship, Jounieh, Lebanon (April 15, 2014).
- "Managing Multiple Accreditations"; A joint presentation with Dr. Julie Perrin Halot, Associate Dean / Dir of Quality at Grenoble Ecole de Management, in AACSB's Europe, Middle East and Africa Annual Meeting, Amsterdam, NL (May 25, 2015).
- "Defining, Measuring and Documenting Impact" A joint presentation with Dr. Carol Johnson, Associate Dean, Spears School of Business, Oklahoma State University, at the AACSB's Associate Deans' Conference in Chicago, IL (Nov. 2, 2015).
- "Developing Joint Degrees: Models, Issues and Best Practices" part of Eduniversal World Convention 2015 at Boston, MA, held at Harvard University, Cambridge, MA (Nov. 12, 2015).
- Chaired a Plenary Session at Eduniversal World Convention 2015 at Boston, MA, entitled "Development and Improvement of Learning and Teaching" with Deans of: i) John Molson School of Business (Concordia University, Canada); ii) American University of Beirut (Beirut, Lebanon); iii) Kyiv-Mohila Business School (Kyiv, Ukraine); iv) School of Economics and Business, Universidad de Chile; and v) Nova School of Business and Economics, Universidad Nova de Lisboa; in addition to the COO and VP of Business Development at Cram Fighter, USA (Nov. 13, 2015).
- "The African Academic Association on Entrepreneurship (AAAE)", part of EFMD's Annual Africa Conference, Dar El Salam, Tanzania (Nov. 30, 2015).
- "How to Develop the Entrepreneurial Mindset" in Solvay Brussels School of Economics and Management, Universite Libre de Bruxelles (ULB), part of EFMD's Entrepreneurship Education Conference (Feb. 25, 2016).
- Invited to give a talk addressing our accreditation efforts and challenges at BUS, part of USEK's Annual Conference "Corporate Governance Across Ethics, Culture and Citizenship", Jounieh, Lebanon (April 26-27, 2016)
- Invited to give a talk addressing our efforts to measure and document our impact at BUS, at AACSB's Europe, Middle East and Africa Annual Meeting, Istanbul, Turkey (May 29-31, 2016).

Publications

Refereed Journals

1. **Hassanein, A.** & Moselhi, O., 2005, "Accelerating Linear Projects", *Construction Management & Economics*, Vol. 23, No. 4, pp. 377-385.
2. **Hassanein, A.** & Moselhi, O., 2004, "Planning & Scheduling Highway Construction", *Journal of Construction Engineering & Management*, American Society of Civil Engineers, Vol. 130, No. 5, pp. 638-646.
3. **Hassanein, A.** & Moselhi, O., 2004, "Discussion of Network Creation & Development for Repetitive-Unit Projects", *Journal of Construction Engineering & Management*, American Society of Civil Engineers, Vol. 130, No. 4, pp. 613-614.
4. Moselhi, O. & **Hassanein, A.**, 2003, "Data Acquisition & Analysis for Highway Construction Using Geographic Information systems", *Canadian Journal of Civil Engineering*, Canadian Society for Civil Engineering, Vol. 30, No. 3, pp. 533-542.
5. Moselhi, O. & **Hassanein, A.**, 2002, "Optimized Scheduling of Linear Projects", *Journal of Construction Engineering & Management*, American Society of Civil Engineers, Vol. 129, No. 6, pp. 664-673.
6. Moselhi, O. & **Hassanein, A.**, 2002, "Automated Spatial Technologies for Linear Infrastructure Projects", *Canadian Civil Engineer*, CSCE, Vol. 19, No. 4, pp. 16-18 (invited paper).

Refereed Conferences

7. **Hassanein, A.**, 2011, "The Role of Civil Society in Promoting Affordable Housing Communities in Egypt", ARNOVA 40th Annual Conference, Toronto, ON, Canada, Nov. 17-19, 2011.
8. **Hassanein, A.** & Sherif, D., 2011, "A Review of Egypt's Endeavours to Deal with Shortages in Affordable Housing" AUC Conference on Social Justice, May 3-5, Cairo, Egypt.
9. **Hassanein, A.**, 2006, "Conceptual Planning of Highway Construction Projects", AACE 50th Annual Conference, Las Vegas, Nevada, USA, June 19-22, 2006.
10. Moselhi, O. & **Hassanein, A.**, 2003, "Electronic Checklist of Risk Items on Construction Projects", 20th International Symposium on Automation & Robotics in Construction, Eindhoven, The Netherlands, Sept. 21-24, 2003.
11. **Hassanein, A.** & Moselhi, O., 2003, "Tracking & Control of Linear Infrastructure Projects", 31st Annual Conference of CSCE, Moncton, NB, Canada, June 4-7, 2003.
12. Moselhi, O. & **Hassanein, A.**, 2002, "Quantifying Weather Impact on Construction Productivity", International Winter Construction Symposium & Expo, Edmonton, AB, Canada, Nov. 3-5, 2002.
13. **Hassanein, A.** & Moselhi, O., 2002, "Automated Data Acquisition & Planning of Highway Construction", 19th International Symposium on Automation & Robotics in Construction", Washington, D.C., USA, Sept. 23-25, 2002.
14. Fahmy, E. & **Hassanein, A.**, 2002, "Analysis of Composite Beams with Web Opening", 30th Annual Conference of CSCE, Montréal, QC, Canada, June 5-8, 2002.
15. **Hassanein, A.** & Moselhi, O., 2001, "Automated Planning & Scheduling of Highway Construction", 29th Annual Conference of The Canadian Society for Civil Engineering, Victoria, BC, Canada, May 30 – June 2, 2001.
16. **Hassanein, A.** & Cherlopalle, V., 1999, "Fuzzy Sets Theory & Range Estimating", AACE 43rd Annual Conference, Denver, Colorado, USA, June 27 – 30, 1999.

Case Studies

17. **Hassanein, A.** & Sherif, D., 2011, "Establishing SiBiC as a Sustainable Business Model in the Egyptian Market", El-Khazindar Business Research & Case Center, AUC, Cairo, Egypt.
18. **Hassanein, A.**, 2013, "Treading Unchartered Waters: The WHO Office Building in Amman, Jordan", El-Khazindar Business Research & Case Center, AUC, Cairo, Egypt. In progress

Reports & Textbooks

19. **UNDP (2016):** "Anti-Corruption", Chapter in UNDP/IMC Report Entitled "Expanding Horizons in Development: The Rising Role of the Private Sector", ECRC Project executed by IMC, P. 45-52.
20. **TU – Berlin Web-TT Program (2014):** "Restructuring the Egyptian Construction Industry: The Role of Certification", Chapter in book entitled "Policy Transfer of Technical and Vocational Education to Egypt - General Conditions, Concepts and Experiences". Technical University – Berlin, Water-Energy-Building Training and Transfer Program. P. 108-119. ISBN 978-3-7983-2715-3 (print); ISBN 978-3-7983-2716-0 (online). pp. 108-119.

21. **UNDP (2013)**; "The Role of the Egyptian Private Sector in Housing Provision and Poverty Alleviation".
22. **Oxford Publishers Inc. (2006)**; Developing the text, test files, interactive CD, student & teachers' manuals for the Canadian Edition of "Engineering Economics Analysis" by Newnan et al.
23. **AUC Business Review (2014)**; "The Luxury We Can't Afford: Can Egyptians Learn to Get More from Less?" Issue No. 4, Fall 2014, pp. 52-55.

References Furnished Upon Request