

GEORGE MORCOUS, Ph.D., P.Eng., P.E.

Department of Construction Engineering and Management
 Charles W. Durham School of Architecture Engineering and Construction
 College of Engineering, University of Nebraska, PKI 105B
 1110 South 67th Street, Omaha, NE, 68182-0571
 Office: (402) 554-2544 Cell: (402) 880-3275
 E-mail: gmorcous@mail.unomaha.edu

EDUCATION

- 1997 – 2000** **Ph. D.**, Faculty of Engineering and Computer Science, Concordia University, Montreal, Quebec, Canada.
Major: Civil Engineering.
Minor: Infrastructure Management.
Thesis: “*Case-Based Reasoning For Modeling Bridge Deterioration*”.
GPA: 4.0 / 4.0
- 1994 – 1997** **M. A. Sc.**, Faculty of Engineering, Cairo University, Cairo, Egypt.
Major: Civil Engineering.
Minor: Construction Management.
Thesis: “*Estimation of Quantities and Cost of P.C. Bridges Over the River Nile in Egypt; Conventional and Neural Networks Approaches*”.
GPA: 3.86 / 4.0
- 1989 – 1994** **B. Eng. (honors)**, Faculty of Engineering, Cairo University, Cairo, Egypt.
Major: Civil Engineering.
Minor: Structural Engineering.
Final Project: “*Analysis of Cable-Stayed Bridges*”.
GPA: 3.84 / 4.0 – Ranked the first out of 300 students

AWARDS

- PCI, Daniel P. Jenny Research Fellowship, 2008, \$20,000
- Precast/Prestressed Concrete Institute (PCI) Award of Excellence, National Champion of Big Beam Engineering Design Competition, 2007.
- PCI, Daniel P. Jenny Research Fellowship, 2007, \$20,000
- Henry Y. Kleinkauf Distinguished New Faculty Teaching Award, 2007, \$2,500
- University of Nebraska-Lincoln, Layman Award, \$10,000, 2006
- Natural Science and Engineering Research Council of Canada (NSERC), Postdoctoral Fellowship, \$35,000 per year, 2001-2002
- Ph.D. Thesis Nominated for the NSERC Doctoral Prize Award, 2001
- Concordia University Fellowship, \$11,000 per year, 1997 – 2000
- Concordia University Tuition Fee Remission 1997
- Cairo University Award of Excellence 1994, 1000 L.E.

GRANTS

1. Tadros and Morcouc "Continuous Shallow Hollow-Core Floor System", Charles Pankow Foundation, \$105,000, November 08 – August 10.
2. Morcouc and Tadros "Ultra-High Performance Concrete in Standard Prestressed Concrete Products", PCI, \$20,000, August 08 – July 09.
3. Hanna, Morcouc, and Tadros "Design Aids for NU-I Girder Bridges", NDOR, \$59,636, July 08 – June 09.
4. Morcouc "Concrete Pressure on Insulated Concrete Forms" UCARE, \$2,000, August 08 – May 09.
5. Morcouc and Tadros "Shallow Continuous Inverted Tee for Hollow Core Floors", Concrete Industries, Inc., \$25,000, January 08 – December 08.
6. Morcouc and Erdogmus "Use of Ground Penetrating Radar for Construction Quality Assurance of Concrete Pavement", NDOR, \$28,667, July 07 – June 08
7. Tadros and Morcouc "Application of Ultra-High Performance Concrete to NU-I Girders", NDOR, \$39,533, July 07 – June 08
8. Morcouc and Tadros "Guidelines for Transverse Design and Detailing of Adjacent Box Beam Bridges", PCI, \$20,000, August 07 – July 08.
9. Morcouc "Construction Quality Assurance Using Ground Penetrating Radar" UCARE, \$2,000, August 07 – May 08.
10. Tadros and Morcouc "Impact of Large 0.7 inch Stands on NU-I Girders", NDOR, \$244,408, July 07 – June 10
11. Morcouc and Tadros "Welded Wire Reinforcement versus Random Steel Fibers in Ultra-High Performance Prestressed Concrete Girders", WRI, \$25,366, May 07 – April 08
12. Morcouc "Detecting Steel in ICF Walls", J.D. & Associates, \$6,729, June 07 – August 07.
13. Tadros and Morcouc "Columbus Viaduct System" NDOR, \$26,023, August 06 – December 08.
14. Tadros and Morcouc "Rapid Construction of Pacific Street Bridge", NDOR, \$139,442, October 05 – September 10.
15. Tadros and Morcouc "Second Generation of Precast Deck Panels" NDOR, \$150,560, July 04 – June 08.
16. Tadros and Morcouc "Design Aids for Threaded Rod Continuous Girders", NDOR, \$101,594, May 04 – June 07.
17. Morcouc, Cho, and Youn, "Remote Assessment of New Bridge Systems Using Smart Wireless Sensors", PKI-UNL-UNO Collaborative Research Grants, \$25,000, June 06 – May 07.
18. Nowak, Morcouc, and Tuan, "Developing Guidelines for Cast-in-Place Self

- Consolidating Concrete”, NDOR, \$58,730, July 06 – June 07.
19. Morcoux, “Lateral and Vertical Deflections of Sunrooms”, Lancaster Conservatories Inc., \$19,960, June 06 – Sept. 06.
 20. Morcoux and Tadros, “Use of LRFD for Bridge Substructure and Earth Retaining Structures”, NDOR, \$14,350, May 06 – June 06.
 21. Goedert, Holmes, Morcoux, Cho, Schwer, and Bernstein, “Plans for Rebuilding New Orleans “, HUD, \$293,859, March 06 – Feb. 08.
 22. Tadros and Morcoux “Class C Fly Ash in Concrete Pavement”, NDOR, \$312,379 Jan. 05 – June 09.
 23. Dufner, Morcoux, and Schwer “Project Management Informatics for Engineering”, PKI-UNL-UNO Collaborative Research Grants, \$5,000, June 05 – May 06.
 24. Morcoux “An Object-Oriented Database for Bridge Management”, Research Office – Acadia University, \$1,500, Dec. 03 – April 04.
 25. Rivard, Fazio, and Morcoux “Building Envelope Life Cycle Asset Management” Institute of Research in Construction – National Research Council of Canada (IRC-NRC), \$28,000, Oct. 00 – Aug. 01.

PROFESSIONAL EXPERIENCE

01/05 - Present ASSISTANT PROFESSOR

Construction Systems - University of Nebraska-Lincoln, Omaha, NE, USA

Instructed the following courses:

- Design and Construction of Reinforced Concrete Building (CET 3390)
- Design and Construction of Foundation (CET 4180)
- Heavy/Civil Estimating (CONE 4660/8660)
- Formwork Systems (CONE 4170)
- Bridge Design (CIVE 949)
- Prestressed Concrete (CIVE 850)
- Reinforced Concrete Design (CIVE 840/440)

09/02 – 12/04 ASSISTANT PROFESSOR

School of Engineering - Acadia University, Wolfville, NS, Canada

Instructed the following courses:

- Mechanics of Materials (APSC 1133)
- Engineering Economics (APSC 2413)
- Engineering Design II (APSC 1863)
- Computer Programming II (APSC 2613)

11/00 – 08/02 POST-DOCTORAL FELLOW

Department of Building, Civil, and Environmental Engineering, Concordia University,

and Dept. of Civil Eng. and Applied Mechanics – McGill Uni., Montreal, QC, Canada.

- Instructed the tutorials and labs of “Foundation Engineering” and Co-Instructed “Renovation and Preservation of Infrastructure”
- Participated in the second phase of the NRC-IRC BELCAM (Building Envelope Life Cycle Asset Management) research project.
- Conducted a research project with NRC-IRC on bridge maintenance optimization.

09/97 – 10/00

RESEARCH ASSOCIATE

Department of Building, Civil, and Environmental Engineering, Concordia University, Montreal, QC, Canada.

Instructed the following courses:

- Technical Drawing (ENGR 211)
- Civil Engineering Drawing (CIVI 211)
- Engineering Economics (ENGR 401)

Conducted a research project for Quebec Ministry of Transportation to develop bridge deterioration models.

09/94 – 08/97

RESEARCH ASSISTANT

Faculty of Engineering – Cairo University, Giza, Egypt

Instructed the tutorials and labs of the following courses:

- Project Management
- Technical Drawing
- Structural Analysis and Design using SAP
- Construction Management Capstone project.

Conducted research in the cost estimate of bridge projects in Egypt.

09/96 – 08/97

PROJECT MANAGEMENT ENGINEER

ORASCOM Construction Company, Cairo, Egypt.

Prepared the schedule and cost estimate of the following projects:

- Dar El-Fouad Hospital
- El-Shiek Zaid Hospital
- Extension of the American University in Cairo (AUC) library.

09/94 – 08/96

BRIDGE ENGINEER

Samaan & Fam Consulting Engineering Firm, Giza, Egypt.

Prepared the structural analysis and design of the following projects:

- Prestressed concrete bridges: El-Moneeb, El-Warrak, and Sherbeen.
- Steel bridges: Shobra El-Mazalat and Nikla.
- Several steel and reinforced concrete commercial and residential buildings.

REFEREED JOURNAL PUBLICATIONS**Published/Accepted/Submitted****Articles:**

1. Hanna, K., Morcou, G., Tadros, M. "Transverse Post-Tensioning Design and Detailing of Precast Prestressed Adjacent Box Beam Bridges", Accepted for Publication in the PCI Journal, September 2008.
2. Morcou, G. (2007) "Pareto Analysis for Multi-Criteria Optimization of Bridge Preservation Decisions", Transportation Research Record, TRB, No.1991, 62-70.
3. Morcou, G., and Lounis, Z. (2006) "Integration of Stochastic Deterioration Models with Multi-Objective Decision Theory for Maintenance Optimization of Bridge Decks", Canadian Journal of Civil Engineering, NRC, 33(6), 756-765
4. Morcou, G. (2006) Discussion on "Bridge Management and Non-Destructive Evaluation", by Kevin L. Rens, Carnot L. Nogueira, and David J. Transue, Journal of Performance of Constructed Facilities, ASCE, 20(3), 300-301
5. Morcou, G. (2006) "Performance Prediction of Bridge Deck Systems Using Markov Chains", Journal of Performance of Constructed Facilities, ASCE, 20(2), 146-155
6. Morcou, G., and Lounis, Z. (2005) "Prediction of Onset of Corrosion in Concrete Bridge Decks Using Neural Networks and Case-Based Reasoning", Journal of Computer-Aided Civil and Infrastructure Engineering, 20, 108-117.
7. Morcou, G., and Lounis, Z. (2005) "Maintenance Optimization of Highway Bridges Using Genetic Algorithms and Markovian Models", Journal of Automation in Construction, Elsevier, 14(1), 129-142.
8. Hanna, A. M., Morcou, G., and Helmy, M. (2004) "Efficiency of Pile Groups Driven in Cohesionless Soil Using Artificial Neural Networks", Canadian Geotechnical Journal, 41, 1241-1249.
9. Morcou, G., Lounis, Z., and Mirza, S. M. (2003) "Identification of Environmental Categories for Markovian Deterioration Models of Bridge Decks", Journal of Bridge Engineering, ASCE, 8(6), 353-361
10. Morcou, G., and H. Rivard, (2003) "Computer Assistance in Managing the Maintenance of Low-Slope Roofs", Journal of Computing in Civil Engineering, ASCE, 17(4), 230-242.
11. Morcou, G., (2003), Discussion on "Improving Design Coordination for Building Projects" by T. Hegazy, E. Zanelidin, and D. Grierson, Journal of Construction Engineering and Management, ASCE, 129(4), 470-471.
12. Morcou, G., Rivard, H., and Hanna, A. M. (2002) "Modeling Bridge Deterioration Using Case-Based Reasoning", Journal of Infrastructure Systems, ASCE, 8 (3), 86-95.
13. Morcou, G., Rivard, H., and Hanna, A. M. (2002) "Case-Based Reasoning System for Modeling Infrastructure Deterioration", Journal of Computing in Civil Engineering, ASCE, 16 (2), 104-114.
14. Bakhoun, M., Morcou, G., Taha, M., El-Said, M. (1998) "Estimation of Quantities and Cost of Prestressed Concrete Bridges Over the Nile in Egypt", Journal of Egyptian Society of Engineers / Civil, 37 (4), 17-32.
15. Morcou, G. "Performance Evaluation of Conservatories Under Wind and Snow Loads" Re-Submitted to the ASCE Journal of Architectural Engineering, June 2008.
16. Hanna, K., Kleymenn, M., Morcou, G., Tadros, M. "Effect of Class C Fly Ash on Controlling Alkali Silica Reaction in Concrete Pavement", Re-Submitted to ACI Materials Journal, June 2008.
17. Morcou, G., and Lounis, Z. "An Integrated System for Bridge Management

Submitted

Using Probabilistic and Mechanistic Deterioration Models: Application to Bridge Deck” Submitted to the Journal of the Korean Society of Civil Engineers (KSCE), Sept. 2008.

18. Morcou, G., Cho, Y., El-Safty, A., Chen, G. “Structural Evaluation of FRP Sandwich Panels for Bridge Decks”, Submitted to the ICE Journal of Buildings and Structures, October, 2008.

CONFERENCE / WORKSHOP PUBLICATIONS

Published/Accepted Articles:

1. Morcou, G (2008) “Recent Development in the Use of NU I-Girders with High Performance Materials” 3rd Latin America Congress on Prefabricated Structures, Guadalajara, Mexico, Keynote Speaker
2. Meyer, K., Erdogmus, E., Morcou, G., and Naughtin, M. (2008) “Use of Ground Penetrating Radar for Accurate Concrete Thickness Measurements”, Proceedings of the 2008 Architectural Engineering Conference, Architectural Engineering Institute (AEI), Denver, CO, September. (Awarded the most outstanding structures paper).
3. Paczkowski, P., Nowak, A. S., Morcou, G., Kaszynska, M., (2008) “Development of Self-Consolidating Concrete for Bridge Construction and Repairs”, Proceedings of the Fourth International Conference on Bridge Maintenance, Safety, and Management, Seoul, Korea, July.
4. Hanna, K., Morcou, G., and Tadros, M. (2008) “Standardized Precast Prestressed Concrete Panels for Bridge Decks”, 2008 Concrete Bridge Conference, PCA, St. Louis, MO, May.
5. El-Safty, A., Zinszer, M., and Morcou, G., (2008) “Forensic Investigation of a Bridge Construction Scaffolding Collapse”, 2008 Structures Congress, SEI-ASCE, Vancouver, BC, April.
6. Paczkowski, P., Kaszynska, M., Morcou, G., Nowak, A. S. (2008) “Development of SCC Procedures for On-Site Bridge Applications” Proceedings of the 87th Annual Meeting of Transportation Research Board, Washington - DC, January.
7. Morcou, G., and Tadros, M. (2007) “Welded Wire Reinforcement versus Random Steel Fibers in Ultra-High Performance Prestressed Concrete Girders” International Workshop on Advanced Structures and Materials (IWASAM), University of Nebraska and Kansai University, Lincoln, NE, November.
8. Hanna, K., Morcou, G., Tadros, M. (2007) “Transverse Design and Detailing of Adjacent Box Beam Bridges”, PCI-FHWA National Bridge Conference, Phoenix, AZ, October.
9. Morcou, G., and Lounis, Z. (2007) “Probabilistic and Mechanistic Deterioration Models for Bridge Management”, Proceedings of the 2007 ASCE Workshop on Computing in Civil Engineering, Pittsburgh - PA, July.
10. Morcou, G. (2007) “Construction Research Initiatives at University of Nebraska-Lincoln”, Proceedings of the UNL-WUT Workshop, Warsaw, Poland, May.
11. Morcou, G., and Akhnoukh, A. (2007) “Reliability Analysis of NU Girders Designed Using AASHTO LRFD”, Proceedings of the 2007 Structures Congress, Long Beach - CA, May.
12. Chen, G., Morcou, G., Cho, Y., Youn, J., and Jung, U, (2007) “Remote Assessment of FRP Bridge Deck System Using Wireless Sensors”, Proceedings of the 2007 SPIE Conference, San Diego - CA, March
13. Morcou, G. (2007) “Pareto Analysis for Multi-Criteria Optimization of Bridge Preservation Decisions”, Proceedings of the 86th Annual Meeting of

Transportation Research Board, Washington - DC, January.

14. Morcou, G., and Lounis, Z. (2006) "Maintenance Management of Bridge Decks Using Stochastic Deterioration Models And Multi-Criteria Optimization", 7th International Conference on Short and Medium Span Bridges, CSCE, Montreal – QC, August.
15. Fam, A., Morcou, G., and Bakhoun, M. (2006) "Computer-Aided Geometric Design of Highway Bridges" 7th International Conference on Short and Medium Span Bridges, CSCE, Montreal – QC, August.
16. Morcou, G., and Akhnouk, A. (2006) "Stochastic Modeling of Infrastructure Deterioration: An Application to Concrete Bridge Decks", International Conference on Computing and Decision Making in Civil and Building Engineering, ASCE, Montreal- QC, June.
17. Morcou, G., and Rivard, H. (2006) "Service Life Prediction of Low-Slope Roofing Systems in Building", Building Integration Solutions, Architectural Engineering Conference, ASCE-AEI, Omaha – NE, March 29-April 1.
18. Akhnouk, A., and Morcou, G. (2006) "Review of the State-of-the-Art Bridge Management Systems in North America", International Conference on Bridge Management Systems – Monitoring, Assessment, and Rehabilitation, Cairo – Egypt, March
19. A. Schwer, D. Dufner, and G. Morcou (2005) "Project Management Informatics", Proceedings of the 2005 Midwest Section Conference of the American Society for Engineering Education, Fayetteville, Arkansas, September.
20. Morcou, G. (2005) "Modeling Bridge Deck Deterioration Using Decision Tree Algorithms", 6th International Bridge Engineering Conference, TRB, Boston, MA, July.
21. Morcou, G. (2005) "Predicting Bridge Deck Performance Using Markovian Models" 1st CSCE Specialty Conference on Infrastructure Technologies, Management, and Policy, CSCE, Toronto, ON, June.
22. Shakshuki, E., and Morcou, G. (2005) "Software Agents in Bridge Management", The 2005 International Multi-Conference in Computer Science & Computer Engineering, Las Vegas, NV, June.
23. Morcou, G. and Bakhoun, M. M. (2004) "Preliminary Estimation of Quantities for Segmental Cast-in-Situ Bridges in Egypt Using Decision Trees", Fib Symposium on Segmental Construction in Concrete, November, New Delhi.
24. Hanna, A. M., Morcou, G., and Helmy, M. (2004) "Estimation of Pile Group Efficiency Using Artificial Neural Networks", International Conference on Geotechnical Engineering, I. Shahrour (Editor), Beirut, Lebanon, May, 559-564
25. Morcou, G. (2003) "An Object-Oriented Database for Bridge Management", Proceedings of the 5th Alexandria International Conference on Structural and Geotechnical Engineering, F. Abd-Rabboo (Editor), Alexandria, Egypt, December, MG1-MG11.
26. Morcou, G. and Lounis, Z. (2003) "A new Approach to Programming Maintenance Activities For Concrete Bridge Decks", Proceedings of the 31st CSCE Annual Conference, M. Massiera (editor) Moncton, NB, Canada, June, GCP-135
27. Morcou, G., Lounis, Z., and Mirza, S. M. (2003) "Improving Markov-Chain Deterioration Models Using Genetic Algorithms", Proceedings of the 10th International Colloquium on Structural and Geotechnical Engineering, A. Dessouki (editor), Cairo, Egypt, April, F03MG06 1-10.
28. Morcou, G., Lounis, Z., and Mirza, S. M. (2002) "Service-Life Prediction of Concrete Bridge Decks Using Case-Based Reasoning", Proceedings of the 6th

- International Conference on Short & Medium Span Bridges, P.H. Brett, N. Bantia, and P.G. Buckland (editors.) Vancouver, BC, Canada, July, 769-776.
29. Morcou, G., and Rivard, H. (2002) "Computerized Maintenance Management System for Low-Slope Roofs", Proceedings of the 30th CSCE Annual Conference, M. Nollet (editor), Montreal, QC, Canada, June, GE-116
 30. Morcou, G. (2002) "Comparing the Use of ANN and CBR for Modeling Bridge Deck Deterioration", Proceedings of the 30th CSCE Annual Conference, M. Nollet (editor), Montreal, QC, Canada, June, TR-115.
 31. Morcou, G., Lounis, Z., and Mirza, S. M. (2002) "Life-Cycle Assessment of Highway Bridges", Proceedings of the Taiwan - Canada Workshop on Bridges, National Center of Research on Earthquake Engineering, C. H. Loh and M. S. Cheung (editors), April, Taipei, Taiwan, 61-82.
 32. Morcou, G., Bakhoun, M., Taha, M., El-Said, M. (2001) "Preliminary Quantity Estimate of Highway Bridges Using Neural Networks", Proceedings of the 6th International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering, H. V. Topping and B. Kumar (editors), Vienna, Austria, September, no. 21.
 33. Morcou, G., Rivard, H., and Hanna, A. M. (2001) "Predicting the Condition of Bridge Decks Using Case-Based Reasoning", Proceedings of the 29th CSCE Annual Conference, D. Noakes (editor), Victoria, BC, Canada, June, A048.
 34. Morcou, G., Rivard, H., Hanna, A. M. (2000) "Case-Based Reasoning System for Bridge Management Systems", 8th International Congress on Computing in Civil and Building Engineering, R. Fruchter, F. Pena-Mora, and W. M. K. Roddis (editors), ASCE, Stanford University, CA, USA, August, 1363-1370.
 35. Morcou, G., Rivard, H., Hanna, A. M. (2000) "Case-Based Reasoning System for Modeling Bridge Deterioration", Bridge Engineering Conference, Abdel-Hady H. Hosny (editor), Sharm El-Sheikh, Egypt, March, 165-176.
 36. Morcou, G., Taha, M., Bakhoun, M., El-Said, M. (1997) "Application of Neural Networks to Preliminary Quantities Estimate of Bridges in Egypt" International Conference on New Technologies in Structural Engineering, S. P. Santos and A. M. Baptista (editors), Lisbon, Portugal, July, 1077-1081.
 37. Morcou, G., Taha, M., Bakhoun, M., El-Said, M. (1996) "Construction Cost Break Down of Prestressed Concrete Bridges in Egypt", 7th International Colloquium on Structural and Geotechnical Engineering, Abdel-Hady H. Hosny (editor), Ain Shams University, Cairo, Egypt, December, 100 – 110.

PROFESSIONAL ACTIVITIES

- Member of Nebraska Board of Engineers and Architects (NBEA) since 07
- Member of the UNO Faculty Senate (External Member) and member of UNO Committee on Academic and Curriculum Affairs since 07.
- Member of Association of Professional Engineers of Nova Scotia (APENS) since 04.
- Member of the Advisory Committee of several graduate students at UNL
- Member of several search committees for faculty positions at UNL
- Associate Member: American Society for Civil Engineers (ASCE)
- Member of the Precast/Prestressed Concrete Institute (PCI)
- Lecturer of PCI one-day seminars

- Member of the external review committee for the graduate program at the University of Miami.
- Member of the American Concrete Institute (ACI) Nebraska Chapter
- Member of the TRB AHD35(2) Subcommittee on Life Cycle Cost Analysis of Bridges.
- Member of the International Association of IABMAS organization.
- Member of the Honorary Society Sigma, Lambda, Chi. since 06.
- Member of the organizing committee of the 31st World Congress of Housing, International Association of Housing Science (IAHS), Montreal 2003.
- Member of the Scientific Committee of the 2006 ASCE Conference on Computing in Civil Engineering, Montreal, 2006.
- Associate Member: Egyptian Society for Engineering (ESE), since 1994
- Member of the construction M. Eng. and Ph.D. acceptance committees.
- Reviewer of several scholar journals: ASCE Journal of Computing in Civil Engineering, ASCE Journal of Structural Engineering, ASCE Journal of Construction Engineering and Management, ASCE Journal of Performance of Constructed Facilities, PCI Journal, ACI Journal, Journal of Computer-Aided Civil and Infrastructure Engineering, and Transportation Research Board.

SKILLS

Linguistic skills:

- English: Excellent written and spoken.
- Arabic: Excellent written and spoken.

Computer skills:

- Project management software: PRIMAVERIA & MICROSOFT PROJECT
- Infrastructure management system: MICROROOFER & PONTIS
- Object-oriented programming language: VISUAL C++
- Expert system programming language: CLIPS
- Neural network simulator: BRAINMAKER & NEUROSHELL
- Case-based reasoning shell: CBR WORKS
- Database management system: OBJECTSTORE & MS ACCESS
- Computer aided design software: AUTOCAD
- Structural analysis and design software: SAP2000, RISA 3D
- Statistical Analysis Software: MINITAB & CRYSTAL BALL
- GPR Processing Software: RADAN 6.5
- Heavy Estimate Software: HEAVY BID

PERSONAL INFORMATION

Nationalities: Egyptian, Canadian, and US Permanent Resident

Marital Status: Married and have two sons.

Hobbies: Swimming, Tennis, Music, and Soccer