

Ahmed Abdel Aziz, Ph.D.

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Education

The University of British Columbia, B.C., Canada

May 2000 Ph.D. in Civil Engineering
Dissertation: “Generalized Economic Model, Risk Analysis Framework and Decision Support System for the Analysis and Evaluation of Capital Investment Projects”,
Advisor Alan D. Russell.

Zagazig University, Sharkia, Egypt

May 2000 M.Sc. in Civil Engineering
Thesis: “Computerized Risk Analysis Model in Cost Estimating in Construction Projects”, Advisor Ismail Basha.

May 1986 B.Sc. in Civil Engineering,

Academic Appointments

University of Washington (UW)

2009 – Present Associate Professor, Department of Construction Management

2009 – 2017 Adjunct Associate Professor, Department of Civil and Environmental Engineering

2003 – 2009 Assistant Professor, Department of Construction Management

University of British Columbia, B.C., Canada

1997 – 2000 Graduate Research Assistant and Graduate Teaching Assistant, Department of Civil Engineering, College of Engineering.

Zagazig University, Sharkia, Egypt

1987 – 1995 Assistant Lecturer, Department of Civil Engineering, College of Engineering.

Industry Consulting

2012 – present **Project Systematics, LLC**, Spokane, WA
Consultant/Trainer: Project Management, CPM, P6, MSP, PE Construction Depth.

- 2004 – 2004 **Athabasca Oil Sands Transportation Corp**, Calgary, Alberta, Canada
CPM & P6 Scheduling Consultant.
- 2000 – 2003 **Aecon Infrastructure Inc**, Calgary, Alberta, Canada (Full-time appointment)
Project Analyst & Project Controls Engineer.
- 1992 – 1995 **Public Sector Construction Holding Company**, Cairo, Egypt
Project Management Consultant.

University Administrative Tasks – University of Washington

- 2009 – 2023 **Department Graduate Program Coordinator** (Construction Management, CM)
- Major achievement: Obtained STEM approval for the program and wrote clarifying letters to US authorities.
 - Major achievement: Carried additional work of Graduate Program Advisor in the COVID years to keep the program running.
 - Managed students' orientation, advising, mentoring, auditing, and graduation. Issued status letters per request for funding agencies and troubled-visa students.
 - Managed communication with Graduate School, petitions, exceptions, probation, and unsatisfactory performance,
 - Managed special students' cases, e.g., students with non-construction background, low GPA, GNM, and reinstatements.
 - Monitored enrollment, carried recruiting via LinkedIn campaigns, communicated with overseas students, revisited admission rules (e.g., GRE) with faculty, and advised the faculty and obtained approval to admit graduate student in all quarters to increase enrollment.
 - Managed OPT/CPT students' training internships.
- 2009 – 2023 **Department Graduate Admissions Committee, Chair** (CM)
Managed students' applications, completeness, and admissions at the department level.
- 2024 – present **Department Graduate Admissions Committee, Member** (CM)
Review students' applications, completeness, and admissions at the department level.
- 2009 – present **Departmental & College Services, Participant** (CM)
Participated in various tasks, e.g.:
- department strategic planning, vision, and mission
 - advising undergraduate students
 - accreditation
 - department hiring of staff and faculty; college cohort hiring of faculty
 - Peer review of colleagues
 - Ph.D. applications review and students' selection
 - CIAC Graduate Committee
 - merit review of assistant professors
 - Other department regular affairs
- 2012 – 2013 **College Curriculum Committee, Chair**
UW College of Built Environments (CBE)
Managed applications of new and revised courses and programs at the college level.

- 2014–19, 2024 - present
College Curriculum Committee, Member (CBE)
 Participated in managing the committee tasks at the college level.
- 2023 – present **College Council – Policy Review Committee, Member (CBE)**
 Review college policies and procedures for the College Council.
- 2022 – 2023 **College Space Analysis Advisory Committee, Member (CBE)**
 Participated in advising for the process regarding the analysis of the college spaces.
- 2012–13, 2024 – present
College Council, Member (CBE)
 Participated in managing council tasks at the college level.
- 2009 – present **University Graduate School Representative (UW)**
 Various appointments, oversee exams of doctoral degrees.

Professional Service Tasks – University Tenure & Promotion (Non-UW)

- 2021 – 2021 **Tenure & Promotion Review, Reviewer (USA)**
 College of Engineering, University of Nebraska-Lincoln.
- 2023 – 2023 **Tenure & Promotion Review, Reviewer (USA)**
 College of Engineering and Architecture, Washington State University.

Professional Service Tasks – Memberships on Boards and Committees

- 2023 – present **TRB Project Panel Member – NCHRP Project 10-130 (USA)**
 Transportation Research Board, “Guidebook for Using Alternative Contracting Methods for Small Highway Projects,”
<https://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=5511>
- 2015 – 2017 **Washington State Public-Private Partnership (PPP) Committee (USA)**
 A PPP committee of the Capital Projects Advisory Review Board (CPARB), WA Legislation. Advised on PPP issues for revisiting the PPP law in WA state.
- 2005 – 2007 **TRB Oversight Committee – NCHRP Project 20-5, Member (USA)**
 Transportation Research Board, Synthesis Research 389 “Performance-Based Contracting for Maintenance,” <https://www.trb.org/Publications/Blurbs/161949.aspx>
- 2007 – present **Transportation Research Board (USA)**
 Standing Committee on Construction Management, Friend
 Standing Committee on Finance and Economics, Friend
 Standing Committee on Project Delivery Methods, Friend
- 2009 – 2009 **Construction Research Congress (CRC), Technical Committee Member (USA)**
 “Building a Sustainable Future”, Seattle, April 5-7, 2009, conference of The American Society of Civil Engineers (ASCE).

Professional Service Tasks - Editorial

- 2023 – 2024 **Guest Editor, Built Environment Project and Asset Management (BEPAM)** (UK)
Special Issue “Public-private Partnerships Public private partnerships: past, present and future”, Guest Editors: B. Laishram, G. Devkar, Y. Ke, A. Abdel Aziz
<https://www.emerald.com/insight/publication/issn/2044-124X/vol/14/iss/1>
- 2009 – present **Associate Editor, Canadian Journal of Civil Engineering (CJCE)** (Canada)
Manage and select reviewers; technical review of manuscripts; recommend decisions.
<https://cdnsiencepub.com/journal/cjce/about/editorial-board>
- 2009 – present **Stephen G. Revay Committee - best CJCE Construction Paper, Member** (Canada)
Technical review of best papers, rank paper for award.
- 2020 – 2020 **Guest Editor, Sustainability Journal** (Switzerland)
Special Issue “Public-private Partnerships for Sustainable Infrastructure Development”,
https://www.mdpi.com/journal/sustainability/special_issues/public_private_partnerships_sustainable_infrastructure_development
- 2003 – present **Journal of Construction Engineering and Management (JCEM), Reviewer** (USA)
Technical review of paper manuscripts. The American Society of Civil Engineers (ASCE), JCEM, and other ASCE journals.
- 2003 – present **Construction Research Congress (CRC), Reviewer** (USA)
Technical review of paper manuscripts. CRC is a biennial conference of The American Society of Civil Engineers (ASCE).
- 2003 – present **Construction Management and Economics Journal, Reviewer** (UK)
Technical review of paper manuscripts.
- 2023 – 2023 **ASC Annual International Conference, Reviewer** (UK)
Technical review of paper manuscripts. Associated Schools of Construction, Annual Conference, Liverpool, UK, April 3-5, 2023.
- 2022 – 2022 **CIB World Building Congress (CRC), Reviewer** (Australia)
Technical review of paper manuscripts. “Building our Future: Informing practice to enhance the lives of current and future generations,” Melbourne, Australia, June 27-30, 2022, International Council for Research and Innovation in Building and Construction.
- 2019 – 2019 **CIB World Building Congress (CRC), Reviewer** (Hong Kong)
Technical review of paper manuscripts. “Constructing Smart Cities”, Hong Kong, June 17-21, 2019, CIB.
- 2012 – 2012 **J. Transport Economics and Policy, Reviewer** (USA)
Technical review of paper manuscripts.

Professional Service Tasks – Research Grants & Textbooks Reviewer

- 2021 – 2021 **Research Grants, Reviewer** (Hong Kong)
Reviewed research grant proposal for the Research Grants Council, Hong Kong.
- 2018 – 2018 **Research Grant Final Report, Subject Mater Expert Reviewer** (Seattle, USA)

Reviewed a research grant final report for resolution on conflicting issues. PacTrans, Regional Transportation Center, US Department of Transportation.

- 2012 – 2015 **Research Grants, Reviewer** (New York, USA)
Reviewed research grant proposals during the term 2012 and 2015 for the City College of New York, University Transportation Center, US Department of Transportation.
- 2008 – 2008 **Research Grants, Reviewer** (Purdue, USA)
Reviewed research grant proposal for Nexttrans, Regional University Transportation Center, US Department of Transportation
- 2008 – 2009 **Textbooks, Reviewer** (USA)
Reviewed book manuscripts on public-private partnerships for publishers:
- John Wiley & Sons
 - Prentice Hall
 - American Society of Civil Engineers Press

Professional Affiliations and Memberships

- 2003 – present **American Society of Civil Engineers** (USA)
ASCE Member.
- 2003 – present **Project Management Institute** (USA)
PMI Member.
- 2007 – present **Construction Research Congress, ASCE** (USA)
CRC Member.

Talks and Presentations

Presentations - Invited with Gratuity

- 2015 – 2024 **UW-NECA Superintendent Training** (Seattle, USA)
Annual lectures to the Superintendent Training of the Puget Sound chapter of The National Electric Contractors Association on project planning and scheduling. Managed by UW.
- 2022 - 2024 **Advanced Engineering Institute, AEI** (Online, USA)
Subject matter expert on “Scheduling,” “Cost Estimating,” “Safety,” and “Soil Properties.”
- 2021- 2024 **Urban Land Institute, ULI Learning** (Online, USA)
Subject matter expert on “Planning and Control” and “Cost Estimating.”
- 2021 **The Knowledge Academy** (UK)
Subject matter expert on “Planning with Primavera.”
- 2018, 19, 21 **UW-NECA MSP Training** (Seattle, USA)
Annual lectures to the members of the Puget Sound chapter of The National Electric Contractors Association on “Planning with MS Project.” Managed by UW.
- 2012 **Lincoln Institute of Land Policy** (Cambridge, MA, USA)

Reviewed and presented critique on a manuscript done by a researcher on “How and why did the quality of service delivery vary within and across countries.”

Presentations - Invited

- 2017 **Construction Management Association of America** (WA, USA)
Talk on “Public-Private Partnerships” to the Northwest Chapter of CMAA.
- 2016 **Associated General Contractors of America** (WA, USA)
Presentation on “public-private partnerships for the delivery of public facilities and infrastructure.”
- 2016 **Washington State Capital Projects Advisory Review Board** (WA, USA)
Presentation on “public-private partnerships.”
- 2014 **American Public Works Association Management and Public Administration Committee** (WA, USA)
Presentation on “public-private partnerships for the delivery of public infrastructure.”
- 2014 **Seattle Public Utilities** (WA, USA)
Presentation on “public-private partnerships in water infrastructure.”

Presentations - Contributed

- 2019 **Conference - Construction Research Congress, ASCI** (WA, USA)
Presentation on “Public-Private Partnerships – an Overview.”
- 2018 **Conference - New Frontiers in Construction, UWCM** (New Orleans, USA)
Presentation on “The Use of PPP Payment Mechanism”, delegated to my Ph.D. student.
- 2017 **Conference – Transportation Research Board**, (Washington, D.C., USA)
Poster presentation on “Investigation of Traffic Safety Performance of U.S. PPP Transportation Projects.”
- 2015 **Conference – 5th International/11th Construction Specialty Conference, Canadian Journal of Civil Engineering** (Vancouver, BC, Canada)
Presentation on “Public-Private Partnerships – Analysis of Government Implementation Units.”
- 2015 **Conference – 2nd International Conference on Public-Private Partnerships**, (Austin, TX, USA).
Presentation on “Comparative Analysis of P3 Availability Payments in the USA - Canada.”
- 2011 **Conference – Construction Specialty Conference, Canadian Journal of Civil Engineering** (Ottawa, Canada).
Presentation on “Unsolicited Proposals for PPP Project: Private Sector Perceptions in the USA.”
- 2009 **Conference – Construction Research Congress, ASCE** (Seattle, USA).
Presentation on “Time Prediction for Highway Pavement Projects using Regression Analysis.”

- 2007 **Conference – Construction Research Congress, ASCE** (Bahamas, USA).
Presentation on “Contractor’s Experiences and Perceived Impediments in Public-Private Partnerships.” *Best Paper Award.*
- 2007 **Conference – Construction Research Congress, ASCE** (Bahamas, USA).
Presentation on “Cost Prediction of Highway Projects using Regression.”
- 2007 **Conference – Transportation Research Board, Annual Meeting** (Washington, D.C.)
Poster presentation on “Analysis of Usage-Based Payments for Contractors Compensation in PPP projects.”
- 2005 **Conference – Construction Research Congress, ASCE** (San Diego, USA).
Poster presentation on “Assessment of a Four Moments and Pearson Distribution Approach for Risk Analysis in Construction Estimates and Economics.”

Awards & Recognitions

- 2009 – present **P. D. Koon Professorship, UW, CBE, CM (USA)**
Nominated by the Dean of the College of Built Environments for teaching achievements to be the holder of the P. D. Professorship since 2009.
- 2022 **Excellence in Teaching Award, UW, CM (USA)**
Nominated by the construction management students, the CM department, for excellence in teaching.
- 2022 **Success Spotlight, Oracle Academy, Oracle Corporation (USA)**
Interviewed and featured as a success spotlight story alongside with select educators from around the world. <https://academy.oracle.com/en/about-success-spotlight-abdel-aziz.html>
- 2007 **Best Paper Award, CRC, ASCE (USA)**
Best Paper Award from the Construction Research Congress, the American Society of Civil Engineers, for the work “Contractor’s Experiences and Perceived Impediments in Public-Private Partnerships.” Co-authored with Ashley Kangas (master graduate student).

Research Grants

- 2015 – 2016 **Roadway Safety in Public Private Partnerships.**
Funded by: Pacific Northwest Transportation Consortium, PacTrans.
Role: PI
Budget: \$80,000
- 2013 – 2014 **Identifying and Analyzing the Relative Advantages and Disadvantages of Public Private Partnerships and traditional delivery for roadway projects.**
Funded by: Pacific Northwest Transportation Consortium, PacTrans.
Role: Co-PI
Budget: \$50,000

- 2012-2013 **HP Leadership Fund: ECL+VI Construction Catalyst – Merging UW Experiential and Contextual Learning (ECL)**
 Funded by: HP Catalyst Grants
 Role: Co-PI
 Budget: \$150,000
- 2012-2013 **HP Leadership Fund: ECL+VI Construction Catalyst – Merging UW Experiential and Contextual Learning (ECL) - Extension**
 Funded by: HP Catalyst Grants
 Role: Co-PI
 Budget: \$23,000
- 2005 – 2007 **Performance Analysis and Forecasting for WSDOT Highway Projects.**
 Funded by: Washington State Department of Transportation.
 Role: PI
 Budget: \$50,000

Publications – Book Chapters & Research Reports

Forthcoming

Abdel Aziz, A. M. (2025). “Practical Construction Planning and Control Using Microsoft Project – An Illustrative Guide.” Routledge, UK/USA.

Published

Abdel Aziz, A. M, and Migliaccio, G. C. (2016). “Public-Private-Partnerships in the USA Transportation Sector,” Chapter 22 in “Public-Private Partnerships – A Global Review,” Taylor and Francis; <https://www.routledge.com/products/9780415728966>

Abdel Aziz, A. M., and Migliaccio, G.C. (2016). “Analysis of Roadway Safety under the Alternative Project Delivery Systems.” Pacific Northwest Transportation Consortium (PacTrans), University Transportation Center for Federal Region 10, Seattle, WA. <https://digital.lib.washington.edu/researchworks/handle/1773/43513?show=full>

Abdel Aziz, A. M. (2007) “Performance Analysis and Forecasting for WSDOT Highway Projects.” Washington State Department of Transportation (WSDOT), Report July 07, WARD 675.1, WSDOT, Olympia, WA. <https://www.wsdot.wa.gov/Research/Reports/600/675.1.htm>

Abdel-Aziz, A. M. and Russell, A.D. (2005). “A Structure for Government Requirements in Public-Private Partnerships” (Chapter 16) in The Economics of Public Private Partnerships (The International Library of Critical Writings in Economics), Ed. by Darrin Grimsey and Mervyn K. Lewis, Edward Elgar Pub. UK. <https://www.e-elgar.com/shop/usd/the-economics-of-public-private-partnerships-9781843762492.html>

Abdel-Aziz, A. M. and Russell, A.D (1998). “Public-Private Partnerships in Infrastructure Development: The Northeast Burnaby School Case Study”, Public-Private Partnership Advisory Committee, Ministry of Finance, B.C., Canada.

In Preparation

Abdel Aziz, A. M. Project Planning, Scheduling, and Control in Transportation with Primavera

Implementation. (1st draft in progress, completed four chapters out of ten)

Publications – Journal Papers

Published

- Abdel Aziz, A. M. (2024). “Statistical Analysis and Representation Models of Calendar-days Liquidated Damages.” ASCE, J. Construction Engineering and Management. *Accepted and Forthcoming*
- Laishram, B., Devkar, G., Ke, Y. and Aziz, A.A. (2024), "Guest Editorial: Public private partnerships: past, present and future", Built Environment Project and Asset Management, Vol. 14 No. 1, pp. 1-3. <https://doi.org/10.1108/BEPAM-02-2024-207>
- Abdel Aziz, A. M. (2023). “Statistical Analysis and Representation Models of Working-days Liquidated Damages.” ASCE, J. Construction Engineering and Management, 149(7), <https://doi.org/10.1061/JCEMD4.COENG-13330>
- Abdel Aziz, A. M., and Muiruri, K. (2023.) “The Articulation and Current Practices of Liquidated Damages in Highways Standard Specifications.” ASCE, J. Legal Affairs and Dispute Resolution, <https://doi.org/10.1061/JLADAH.LADR-959>
- Abdel Aziz, A. M. (2021). “The Practice of Roadway Safety Management in Public-Private Partnerships.” Journal of Construction Engineering and Management, ASCE, Dec 21, 147(12), [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0002198](https://doi.org/10.1061/(ASCE)CO.1943-7862.0002198). (downloads: 304)
- Shang, L., and Abdel Aziz, A. (2020). “Stackelberg Game Theory Based Optimization Model for the Design of Payment Mechanism in Performance-Based PPPs.” Journal of Construction Engineering and Management, ASCE, 146(4). [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001806](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001806) (downloads 901)
- Abdel Aziz, A. M (2008). “Minimum Performance Bounds for Evaluating Contractors Performance during Construction of Highway Pavement Projects” J. Construction Management and Economics, 26(5), 507-529. <https://doi.org/10.1080/01446190801918748> (downloads/Views: 224)
- Abdel Aziz, A. M. (2007). “Successful Delivery of Public-Private Partnerships for Infrastructure Development” Journal of Construction Engineering and Management, ASCE, 133(12), 918-931. [https://doi.org/10.1061/\(ASCE\)0733-9364\(2007\)133:12\(918\)](https://doi.org/10.1061/(ASCE)0733-9364(2007)133:12(918)) (downloads: 3419)
- Abdel Aziz, A. M. (2007). “A Survey of the Payment Mechanisms for Transportation DBFO (PPP) Contracts in British Columbia” J. Construction Management and Economics, 25(5), 492-543 (London, UK). <https://doi.org/10.1080/01446190601161465> (downloads/Views: 609)
- Abdel Aziz, A. M. and Russell, A. D. (2006). “Generalized Economic Modeling for Infrastructure and Capital Investment Projects.” Journal of Infrastructure Systems, American Society of Civil Engineers, 12(1), 18-32. [https://doi.org/10.1061/\(ASCE\)1076-0342\(2006\)12:1\(18\)](https://doi.org/10.1061/(ASCE)1076-0342(2006)12:1(18)) (downloads: 299)
- Abdel-Aziz, A. M. and Russell, A.D. (2001). “A Structure for Government Requirements in Public-Private Partnerships” Canadian Journal of Civil Engineering, 28(6), 891-909. <https://cdnsiencepub.com/doi/10.1139/l01-058> (downloads: 140)

In preparation

Abdel Aziz, A. M. (In Progress). “Extension of Time and Suspension of Work – Review of the Standards in Highways Infrastructure.” ASCE, J. Legal Affairs & Dispute Resolution.

Abdel Aziz, A. M. (In Progress). “State of Practice for the Termination and Default Clauses in Public-Private Partnership.” ASCE, J. Legal Affairs & Dispute Resolution.

Abdel Aziz, A. M. (In Progress). “Analysis of Scheduling Development in Highways Infrastructure Standard Specifications.” ASCE, J. Construction Engineering and Management.

Publications – Peer-Reviewed Conference Papers

Hochstatter, K., Borhani, A., Pratama, L., Gautam, B., Abdel Aziz, A., Lee, H., and Dossick, C. (2022). “Preparing Students for Construction Management Technology Curriculum.” The 2022 Annual Conference Excellence Through Diversity, ASEE, American Society for Engineering Education, Minneapolis, Minnesota, June 26-2022. <https://www.asee.org/events/Conferences-and-Meetings/2022-Annual-Conference-Highlights>

Ahmed Abdel Aziz and Wenjie Shu (2020). “PPPs for Healthcare Facilities in British Columbia: A Preliminary Analysis.” Construction Research Congress, ASCE, March 8-10, Tempe, AZ. <https://doi.org/10.1061/9780784482889.144>

Shang, L., and Abdel Aziz, A. (2019). “Conceptual Framework for the Design of Payment Mechanism in Transportation PPPs.” The CIB World Building Congress 2019, The International Council for Research and Innovation in Building and Construction (CIB)– Constructing Smart Cities June 17-21, Hong Kong. <https://www.polyu.edu.hk/bre/docdrive/CIBWBC2019/proceedings.html>

Shang, L., and Abdel Aziz, A. (2019). “An Investigation of the Contractual Roadway Safety Terms in Transportation PPPs.” The 10th International Structural Engineering and Construction Conference, May 20-25, Chicago, Illinois https://www.isec-society.org/ISEC_PRESS/ISEC_10/html/PRO-02.xml

Shang, L., and Abdel Aziz, A. (2018). “The USA PPP Payment Mechanisms: A Comparison to the Canadian PPP Systems” ASCE Construction Research Congress, pp. 129-138. New Orleans, Louisiana. <https://doi.org/10.1061/9780784481295.014>

Luming Chang, Ahmed Abdel Aziz, and Giovanni Migliaccio (2017). “Investigation of Traffic Safety Performance of U.S. PPP Transportation Projects.” The 2017 Annual Meeting of the Transportation Research Board, January 8-12, 2017, in Washington, D.C. <https://trid.trb.org/view/1439666>

Abdel Aziz, A. M., and Shen, Tai-Ling (2016). “Management of Force Majeure Risks in PPP Canadian Projects” Construction Research Congress, ASCE, San Juan, Puerto Rico. <https://doi.org/10.1061/9780784479827.055> (Downloads 140)

Abdel Aziz, A. M., and Elmahdy, A. (2015). “Public-Private Partnerships – Analysis of Government Implementation Units”, Proceeding of the 5th International/11th Construction Specialty Conference, the Canadian Journal of Civil Engineering, Vancouver, BC, Canada, 8-10 June. <https://open.library.ubc.ca/soa/cIRcle/collections/52660/items/1.0076450>

Abdel Aziz, A. M., and Abdelhalim, K. (2015). “Comparative Analysis of P3 Availability Payments in the USA and Canada”, Proceeding of the 2nd International Conference on Public-Private Partnerships, Austin, Texas, USA, 26-29 May. <https://doi.org/10.1061/9780784480267.044>

- Abdel Aziz, A. M, and Nabavi, H. (2014). “Unsolicited Proposals for PPP Project: Private Sector Perceptions in the USA.” Construction Research Congress, ASCE, Atlanta, GA.
<https://doi.org/10.1061/9780784413517.138>
- Abdel Aziz, A. M. (2013) “Commentary on how and why did the quality of service delivery vary within and across countries”, Ch 14 of “Infrastructure and Land Policies” by Lincoln Institute of Land Policy, Cambridge, MA. <https://www.lincolninst.edu/publications/books/infrastructure-land-policies>
- Abdel Aziz, A. M. (2011). “Unsolicited Proposals in Public-Private Partnerships Projects – Analysis of State Regulations in the USA.” Construction Specialty Conference, Canadian Society of Civil Engineers, CSCE, Ottawa, Canada.
- Abdel Aziz, A. M, (2011). “A Survey on Tools for Measuring Contractors Performance by State DOTs.” 3rd Construction Specialty Conference, Annual Conference of the Canadian Society of Civil Engineers, CSCE, Ottawa, Canada. <https://www.proceedings.com/content/013/013148webtoc.pdf>
- Abdel Aziz, A. M, (2009). “Time Prediction for Highway Pavement Projects using Regression Analysis.” Construction Research Congress, American Society of Civil Engineers, Seattle, WA.
[https://doi.org/10.1061/41020\(339\)91](https://doi.org/10.1061/41020(339)91)
- Abdel Aziz, A. M, and Kangas, A. A. (2007). “Contractor’s Experiences and Perceived Impediments in Public-Private Partnerships.” Construction Research Congress, ASCE, Bahamas. **Best Paper Award.**
- Abdel Aziz, A. M (2007). “Analysis of Usage-Based Payments for Contractors Compensation in PPP projects.” Transportation Research Board (TRB) Annual Meeting, Washington, D.C.
<https://trid.trb.org/view/802284>
- Abdel Aziz, A. M, (2007). “Cost Prediction of Highway Projects using Regression.” Construction Research Congress, American Society of Civil Engineers, ASCE, Bahamas.
- Abdel Aziz, A. M. and Russell, A. D. (2005). “Assessment of a Four Moments and Pearson Distribution Approach for Risk Analysis in Construction Estimates and Economics.” Construction Research Congress, American Society of Civil Engineers, ASCE, April 2005.
[https://doi.org/10.1061/40754\(183\)67](https://doi.org/10.1061/40754(183)67)
- Abdel-Aziz, A. M. and Russell, A. D. (1999). “Decision Support System for Infrastructure Project Appraisal and Risk Analysis.” The Canadian Society of Civil Engineers, 27th Annual CSCE Conference, June 2-5, Vol III, 359-368. Regina, Saskatchewan.
- Russell, A. D., and Abdel-Aziz, A. M. (1997). “Public-Private Partnerships and Public infrastructure.” 1st Int. Conference on Construction Industry Development, Singapore, Vol. 1, 410-419.

Academic Experience – Graduate Students Supervised

Ph.D. Committee Chair

- Completed Mr. Luming Shang, UW Built Environments. Now, Research Scientist with Amazon.
 Dissertation: “Achieving Public Agency Goals in Public-Private Partnerships using Innovative Payment Mechanisms.”

Completed Mr. Sohaib Gutub. UW Civil Engineering, Assistant Professor at King Abdul Aziz University in Jeda, Saudi Arabia. Dissertation: “Framework for the Implementation Process of Public-Private Partnerships (P3s) for US Highway Projects”

In Progress Mr. Kevin Muiruri, UW Built Environments. Expected completion in 2025.

Ph.D. Committee Member

In Progress Mr. Bndar Alsahli, UW Law School. Expected completion summer/autumn 2023. Dissertation: “Alternative Dispute Resolution for Public-Private Partnership contracts in Saudi Arabia: Toward a Clear and Effective Dispute Resolution Model.”

Completed Mr. Lucky Pratama, UW Built Environments. Completed autumn 2023. Dissertation: “Immersive Visualization Intervention on Pull Planning.”

Master Students Thesis Committee Chair

In Progress Mrs. Miriam Ccarita Cruz, “Analysis of Default and Termination Clauses in Public-Private Partnership Highway Projects” Expected 2024.

In Progress Mrs. Melissa Ordonez, “Analysis of Suspension of Work and Extension of Time in Highways Standard Specifications” Expected 2023.

Completed Mr. Kevin Muiruri, “Analysis of Liquidated Damages Provisions of Highway Standard Specifications” 2022.

Completed Mr. Salam Abdalla, “A Comparative Analysis of US Departments of Transportation Scheduling Specifications and Industry Recommended Scheduling Practices” 2015.

Completed Mr. Mustafa Sinan Mustafaoglu, “Quantitative Effectiveness Analysis of Solar Photovoltaic Policies, Introduction of Socio-Feed-In Tariff Mechanism (Socio FIT) and its Implementation in Turkey” 2013.

Completed Mr. Houman Nabavi, “Unsolicited Proposals in Public-Private Partnerships Projects – Analysis of State Regulations in the USA” 2010.

Completed Mr. Abdulelah Hamad Alfawzan, “Analysis of the Public Private Partnerships’ (PPP) Structure and Projects in Saudi Arabia” 2009.

Completed Mrs. Ashley Andersen, “Private Sector Experiences and Perceived Impediments in Public-Private Partnerships”

Completed Mr. Tai-Ling Shen, “Management of Force Majeure and Change in Law Risk in Public-Private Partnerships”

Master Students Thesis/Industry Research Committee Member

Mrs. Qinxue Li, “Mental Health in Temporary Construction Workers”

Mr. Pen Leppard, co-supervised, industry research report.

Mrs. Naila Crawford, co-supervised, industry research report.

Mr. Mohammad Khan, co-supervised, industry research report.

Research Report Master Students, Chair

Mr. Jake Porter: MS research “Assessing the Long-Term Financial Viability of Smart HVAC Systems in Commercial Construction: A Comparative Life-Cycle Cost Analysis with Emphasis on Maintenance and Operation Costs and the Influence of U.S. Government Policies.” Completed 2023.

Mr. Bijesh Kumar Gautam: MS research “Default & Termination Clauses in PPPs”, completed 2021

Mr. Herish Patel: MS research “Value for Money analysis & discount rate study for PPP Project-Canada” completed 2017.

Ms. Li Lin. MS research “Public-Private Partnership in China.” Completed 2017.

Ms. Tsung-Hsiu Elizabeth Tsou. MS research “The design and use of payment mechanisms in public-private partnership projects.” Completed 2016.

Mr. Mohamed Alkhedher. MS research “Availability Payment in Public-Private Partnerships.” Completed 2014.

Mr. Khaled Abdelhalim Elmahdy. MS Research “Availability payments in Public-Private Partnerships” Completed 2014.

Mr. Amr Abdel Hakim Elmahdy. MS Research “Public-Private Partnerships Comparative Analysis of PPP units” Completed 2014.

Mr. Muwafaq Gasim. MS research “What’s the Perceived Value of Dedicated PPP units to the Infrastructure development in the United States: Experimental Research on the adequacy of Dedicated PPP Units in major Infrastructure Delivery” Completed 2014.

Mr. Laxmi Kaylan. MS research “Analysis of mathematical expression used in payment mechanisms of DBFO projects across the USA and British Columbia, Canada.” Completed 2013.

Mr. Jinyoung Kang. MS research “A Comparative study of management of Force Majeure and Change in Law risk in Public-Private Partnerships.” Completed 2011.

Mr. Abdulrahman Abahussain. MS research “Analysis of Failures in the public construction projects in Saudi Arabia.” Completed 2011.

Mr. Bassem Bakheet. MS research “Analysis of the Liquidated Damages in Construction Projects.” Completed 2011.

Mr. Howard Chang. MS research “No-Damages-for-Delay Clause in U.S. Public Transportation Projects” Completed 2011. (Civil Engineering Graduate Student)

Mr. Moataz Salma. MS research “Risk Analysis and Contingency Estimating.” Completed 2011.

Mr. Wenjie Shu. MS research “An Investigation of Public-Private Partnership in Health Care Facility Development in North American Region.” Completed 2010.

Mr. Mitchell Huynh. MS research “The Use of Public Private Partnerships for Wind Farm Development.” Completed 2010.

Mr. Mardi Morrison. MS research “Examining the Ramifications of Using Private Financing in P3 Projects.” Completed 2010.

Mr. Daniel Foose. MS research “A Guide to Life-Cycle Cost Analysis for Public Education Facilities.” Completed 2010.

Mr. Jimmy Soong. MS research “Privatized Power Distribution in Georgia – A Look at AES’s Failure.” Completed 2009.

Mr. Craig LaBrie. MS research “The Meaning of L.I.F.E. A Philosophical Approach to Real Estate Development.” Completed 2008.

Ms. Mihaela Zagoni: An undergraduate independent student research in “the implementation of public-private partnership projects in British Columbia, Canada.” Ms. Mihaela Zagoni completed the research under the Faculty/Student Varey Award.

Mr. Naief Al Subaey: Carried out an independent research study on PPPs for comparing the PPP requirements in five states. Work completed in the spring and summer quarters 07.

Mr. Koen Kerstens and Mr. Jos Appelhof: An independent study research conducted by an international visiting student from the Technische Universiteit Eindhoven (the Netherlands) on their research comparing the use of traditional and alternative contracting methods for tunnel construction.

Academic Experience – Teaching

Courses Developed and Taught

Undergraduate Courses (Active)

CM 411	Project Planning and Control (4 CR/~60 students) (17 Quarters)	Autumn 2006-2022
CM 422 A	Construction Computer Applications (2 CR/~30 students) (17 Quarters)	Winter 2007-2023
CM 422 B	Construction Computer Applications (2 CR/~30 students) (17 Quarters)	Winter 2007-2023

Undergraduate Courses (Non-Active)

CM 411 C	Project Planning and Control (CM minor; 3 CR/~25 student; 2 Quarters)	Winter 2020-21
CM 450	Construction Project Management (civil & other majors; 4 CR/~25 students) (11 Quarters)	Summer 2010-2020
CM 331	Construction Estimating I (3 CR/~45 students) (7 Quarters)	Spring 2003-2009
CM 333	Construction Safety (3 CR/~45 students) (3 Quarters)	Autumn 2004-2005

Graduate Courses (Active)

CM 530	Project Economics and Risk Analysis (3 CR/15 students) (20 Quarters)	Spring 2004-2023
CM 582	Heavy Construction Estimating (3 CR/~20 students) (20 Quarters)	Summer 2003-2022

Certificate Courses (Active)

CM 422 C Construction Computer Applications (2 CR/) (3 Quarters)
 CM 422 D Construction Computer Applications (2 CR/) (3 Quarters)

Spring 2021-2023
 Spring 2021-2023

Students Course Evaluation and the Challenge and Engagement Index

