



**Department of Civil Engineering
and Applied Mechanics**

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Denis Mitchell, Ph.D., Eng., FRSC, FACI, FCSCE, FCAE, FEIC, FICE, FEUAS
Distinguished James McGill Professor

July 20, 2021

To Whom It May Concern:

This is to certify that Omar Shemy worked as a University Research Assistant in my lab at McGill University, Montreal from January 1st 2019 to July 31st 2021. The Canadian National Occupation Code for Research Assistant is 4012. During this period, his services were found to be excellent in carrying out the job duties and his responsibilities were as follows:

Details of Employment for Research Assistance:

Designation: Graduate Research Assistant

Employee Id: 260578507

Type of Employment: Part time

Hours of Work/Week: 18 hours

Annual Compensation:

Year	Amount (CAD \$)
2019	38891.35
2020	25370.75
2021	12750.02

Duties and responsibilities handled by Omar as a Research Assistant:

- He helped construct eight full-scale reinforced concrete columns and then tested the columns in an agile manner.
- He followed up daily with the co-supervisor and participated in meetings to discuss issues, presented findings during the construction/testing phase to me and performed any necessary follow-up tasks.
- He conducted studies and literature searches using internet databases, analyzing and summarizing various data on shear strength of short reinforced concrete columns.
- He compared experimental results against tests from the literature and current standard design procedures, with a lens to improve.
- He actively participated in the discussion of the project results with me every week.
- He collaborated with other members to address issues in the field of research.
- He supported me to write and edit a technical research article on the shear strength of short bridge columns submitted to the ASCE Journal of Bridge Engineering.
- He prepared a presentation to present our findings in a research seminar to the Department of Civil Engineering.

Details of Employment for Teaching Assistance:
 Designation: Graduate Teaching Assistant
 Employee Id: 260578507
 Type of Employment: Part time
 Hours of Work/Week: 12 hours (during the months indicated)
 Contractual Compensation terms:

Term	Contract dates	Class	Hours	Amount (CAD \$)
FALL 2019 (Sept-Dec 2019)	Sept 09 Dec 06	CIVE 446: Construction Engineering	78	2287.74
FALL 2019 (Sept-Dec 2019)	Sept 03 Dec 20	MECH 289: Design Graphis & AutoCAD	75	2198.90
WINTER 2020 (Jan-Apr 2020)	Jan 13 Apr 10	CIVE 463: Design of Concrete Structures	78	2287.74
WINTER 2020 (Jan-Apr 2020)	Jan 13 Apr 10	CIVE 324: Sustainable Project Management	78	2287.74
FALL 2020 (Sept-Dec 2020)	Sept 08 Dec 04	CIVE 446: Construction Engineering	78	2287.74
FALL 2020 (Sept-Dec 2020)	Sept 02 Dec 07	MECH 289: Design Graphis & AutoCAD	75	2198.90
WINTER 2021 (Jan-Apr 2021)	Jan 11 Apr 09	CIVE 463: Design of Concrete Structures	78	2369.25
WINTER 2021 (Jan-Apr 2021)	Jan 11 Apr 16	MECH 289: Design Graphis & AutoCAD	75	2639.70

Duties and responsibilities handled by Omar as a Teaching Assistant:

- Conducted tutorial seminars to supplement lecture material by demonstration of practice questions and helping with assignment questions
- Provided one-on-one support to address varying student concerns in weekly office hours
- Graded tutorial exercises and homework assignments

In summary Omar Shemy performed all his duties in an excellent and timely fashion and earned his Masters Degree at McGill University. I would be pleased to provide any additional information that might be required.

Yours truly,



Denis Mitchell
 Distinguished James McGill Professor
 Department of Civil Engineering