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CURRICULUM VITAE

Name: Moab Maidi.
Date & place of birth: 19.03.1975, Taibah, Israel.
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1. Academic Education

2022-2025 Ph.D. from the Structural Engineering Department, Ben-Gurion University of the Negev- Israel. Multi Scale Seismic Design Methodology for **Non-Corrosive Reinforced Concrete Structure.** Advisers: Prof. Erez Gal (BGU) and Dr. Gili Lifshitz Sherzer (Ariel U).

2019-2021 M.Sc. thesis in Structural Engineering, Civil Engineering department, Ben-Gurion University of the Negev- Israel. Thesis subject: Structural assessment of existing buildings for earthquake resistance (Seismic Retrofitting). Adviser: Dr. Igor Shufrin.

2014-2016 M.Eng. in Civil Engineering, Technion - Israel Institute of Technology, Israel, department of Civil Engineering. Thesis subject: Capacity Improvement of Transportation Systems. Adviser: Prof. Tomer Toledo.

2006-2008 M.Sc. in Mechanical Engineering, Tel Aviv University - Israel. Thesis subject: Structures Waste Caring. Adviser: Prof. Amus Olman.

1998-2002 B.Tech. (Cum Laude) in Civil Engineering, SCE -Sami Shamoon College of Engineering, Israel. Structural and Construction Management Engineering.

2. Academic Employment

- Since 2025, Staff lecturer at the Civil Engineering Department at BRAUDE – College of Engineering Karmiel.

- 2024-2025, Staff lecturer at the Civil Engineering Department at SCE – Sami Shamoon College of Engineering Ashdod.

- 2014 to 2024, Adjunct lecturer at the Civil Engineering Department at SCE – Sami Shamoon College of Engineering Beer Sheva.

Courses list:

- Principles of Structural Design.
- Structural Engineering.
- Final project 1 (Structural & Seismic Eng').
- Final project 2 (Structural & Seismic Eng').
- Earthquake Resistance Design.
- Prestressed Concrete.

- (2022-2023) Responsible for departmental seminars in the Civil Engineering Department at SCE Beer Sheva.

2023-2024 Adjunct lecturer at the Civil Engineering Department Ariel University, Ariel Israel: **Pretested Concrete Structures**.

Details of the activity among years :

Academic Year	Courses	Year	Role	Students No'	Affiliation / Campus
2014-2015	Structural Engineering.	4rd	Assistant	52	SCE- Beer Sheva
2014-2015	Principles of Structural Design.	3rd	Assistant	57	SCE- Beer Sheva
2014-2015	Final project (structural & Seismic Eng')	4rd	Supervisor	8	SCE- Beer Sheva
2015-2016	Structural Engineering.	4rd	Assistant	58	SCE- Beer Sheva
2015-2016	Principles of Structural Design.	3rd	Assistant	62	SCE- Beer Sheva
2015-2016	Final project (Structural & Seismic Eng')	4rd	Supervisor	7	SCE- Beer Sheva

2016-2017	Structural Engineering.	4rd	Assistant	60	SCE- Beer Sheva
2016-2017	Principles of Structural Design.	3rd	Assistant	60	SCE- Beer Sheva
2016-2017	Final project (Structural & Seismic Eng')	4rd	Supervisor	8	SCE- Beer Sheva
2017-2018	Structural Engineering.	4rd	Assistant	59	SCE- Beer Sheva
2017-2018	Principles of Structural Design.	3rd	Assistant	65	SCE- Beer Sheva
2017-2018	Final project (Structural & Seismic Eng')	4rd	Supervisor	8	SCE- Beer Sheva
2018-2019	Structural Engineering.	4rd	Assistant	61	SCE- Beer Sheva
2018-2019	Principles of Structural Design.	3rd	Assistant	63	SCE- Beer Sheva
2018-2019	Final project (Structural & Seismic Eng')	4rd	Supervisor	6	SCE- Beer Sheva
2019-2020	Structural Engineering.	4rd	Lecturer	65	SCE- Beer Sheva
2019-2020	Structural Engineering.	4rd	Assistant	27	SCE- Beer Sheva
2019-2020	Principles of Structural Design.	3rd	Lecturer	125	SCE- Beer Sheva
2019-2020	Principles of Structural Design.	3rd	Assistant	25	SCE- Beer Sheva
2019-2020	Final project (Structural & Seismic Eng')	4rd	Supervisor	8	SCE- Beer Sheva
2019-2020	Final project (Structural Eng')	4rd	Supervisor	6	BGU
2020-2021	Structural Engineering.	4rd	Lecturer	128	SCE- Beer Sheva
2020-2021	Structural Engineering.	4rd	Assistant	27	SCE- Beer Sheva

2020-2021	Principles of Structural Design.	3rd	Lecturer	132	SCE- Beer Sheva
2020-2021	Principles of Structural Design.	3rd	Assistant	23	SCE- Beer Sheva
2020-2021	Final project (Structural & Seismic Eng')	4rd	Supervisor	7	SCE- Beer Sheva
2021-2022	Structural Engineering.	4rd	Lecturer	133	SCE- Beer Sheva
2021-2022	Structural Engineering.	4rd	Assistant	24	SCE- Beer Sheva
2021-2022	Principles of Structural Design.	3rd	Lecturer	128	SCE- Beer Sheva
2021-2022	Principles of Structural Design.	3rd	Assistant	26	SCE- Beer Sheva
2021-2022	Final project (structural & Seismic Eng')	4rd	Supervisor	8	SCE- Beer Sheva
2021-2022	Final project (structural Eng')	4rd	Supervisor	7	BGU
2022-2023	Structural Engineering.	4rd	Lecturer	133	SCE- Beer Sheva
2022-2023	Principles of Structural Design.	3rd	Lecturer	129	SCE- Beer Sheva
2022-2023	Structural Engineering.	4rd	Lecture	136	SCE- Beer Sheva
2022-2023	Principles of Structural Design.	3rd	Lecturer	138	SCE- Beer Sheva
2023-2024	Structural Engineering.	4rd	Lecturer	129	SCE- Beer Sheva
2023-2024	Principles of Structural Design.	3rd	Lecturer	136	SCE- Beer Sheva
2023-2024	Pre-Stressed Concrete	3rd	Assistant	26	Ariel U
2024-2025	Earthquake Resistance Design	4rd	Lecturer	140	SCE- Ashdod
2024-2025	Workshop- Final project (structural Eng')	4rd	Lecturer	140	SCE- Ashdod

2024-2025	Principles of Structural Design.	3rd	Lecturer	27	BRAUDE
2025-2026	Structural Engineering.	4rd	Lecturer	20	BRAUDE
2025-2026	Pre-Stressed Concrete	4rd	Lecturer	20	BRAUDE
2025-2026	Final project (structural Eng')	4rd	Supervisor	7	BRAUDE
2025-2026	Final project (structural Eng')	4rd	Supervisor	20	BGU

2024-2025, lecturer (Academic Staff) at the Civil Engineering Department at SCE – Shamoon College of Engineering, Ashdod.

Courses list:

- Principles of Structural Design.
- Structural Engineering.
- Earthquake Resistance Design.
- Final project Workshop (Structural & Seismic Eng').
- Pretested Concrete Structures.

3. Industrial Engineering Experience

Since 2005, I am owner of Engineering Company "Moab Civil and Seismic Engineering ltd.

3.1 Licenses in Civil Engineering fields:

- Structural Engineering, No' 114983.
- Environmental Engineering, No' 114983.
- Transportation Engineering, No' 45357283.
- Highway and Flight lanes Engineering, No' 45357283.
- Project Management Engineering, No' 114983.

3.2 Train young engineers for a full license:

- Since 2012, Qualified to train a young Engineers (Structural Eng').

4. Academic Research Field.

- Seismic retrofitting for existing buildings by adding stiffening components.
- Assessing the resistance of existing buildings against earthquake events.

- Predicting of seismic resistance and performance for reinforced concrete structures.
- Design a non-corrosive structure.
- Passive control of reinforced concrete structures.
- Ductility properties of non-corrosive structures under monotonic and cyclic loading.
- Failure Criteria of reinforced concrete (Large Scale).

4.1 List of Publications

- Maidi M., Lifshitz Sherzerc G., Gal E., (2024), Enhancing ductility in carbon fiber reinforced polymer concrete sections: A multi-scale investigation. https://doi.org/10.12989/cac.2024.33.4.385.

- Maidi M., Igor Shufrin. 2024. "Evaluation of Existing Reinforced Concrete Buildings for Seismic Retrofit through External Stiffening: Limit Displacement Method." Buildings 14 (9): 2781. https://doi.org/10.3390/buildings14092781.

- Maidi M., Lifshitz Sherzer, G., Shufrin, I., & Gal, E. (2024). Seismic Resilience of CRC- vs. RC-Reinforced Buildings: A Long-Term Evaluation. Applied Sciences, 14(23), 11079. https://doi.org/10.3390/app142311079.

- Maidi M., Sherzer, G. L., & Gal, E. (2025). Multiscale Numerical Study of Enhanced Ductility Ratios and Capacity in Carbon Fiber-Reinforced Polymer Concrete Beams for Safety Design. Polymers, 17(2), 234. https://doi.org/10.3390/polym17020234.

4.2 In Submission Status

- Maidi M., Lifshitz Sherzerc G., Gal E., Seismic Resistance and dissipation Energy Assuming of Rigid (CRC) Frames Structures Part 1: Monotonic Loading.

- Maidi M., Lifshitz Sherzerc G., Gal E., Seismic Resistance and dissipation Energy Assuming of Rigid (CRC) Frames Structures Part 2: Cyclic Loading.

- Maidi M., Seismic Resistance and Energy Dissipation prediction under Numerical Cyclic Loading for Shear Wall CFRP Reinforced.

4.3 Under Writing (In Process)

- Aarar A., Maidi M., The Residual Axial Compressive Capacity of Reinforced Concrete Column Array Expose to Fire Standard.

- Maidi M., Seismic Retrofitting and Adding Stories of Existing Structures Using a Transform Slab vs `More Columns: Analytical and Numerical Approaches.

- Maidi M., Seismic resistance and energy dissipation prediction of column-ring beam interior joints under numerical cyclic loading.

- Maidi M., Evaluation of Structural Vulnerability in High-Rise Residential Buildings Under Ballistic Missile Blast Effects.

4.4 Books/collective volumes

- Writing two chapters in "Guidelines for Risk Assessment in Mature Trees" (in process); Ministry of Agriculture (Israel).

4.5 Other Publications/Reports

- Maidi M., “Structural assessment of existing buildings for earthquake resistance (seismic retrofitting), M.Sc. thesis (in Hebrew)” Ben Gurion University in the Negev, Beer Sheva, Israel, 2020.

5. Seminar Presentations

- Moab Maidi. "Multi Scale Seismic Design Methodology for Non-Corrosive Reinforced Concrete Structure" Ben-Gurion University of the Negev-Beer Sheva, Israel, 2025.

- Moab Maidi " Structural assessment of existing buildings for earthquake resistance (seismic retrofitting)." SCE - Sami Shamoon College of Engineering, Beer Sheva, Israel, 2021.

- Moab Maidi " Structural assessment model of existing buildings for earthquake resistance". Ben-Gurion University of the Negev-Beer Sheva, Israel, 2020.

5.1 Workshop At SCE

- Retrofitting, Methods and structural design principles, 06/2022
- Aspects of building conservation engineering, 02/2023
- Sinkhole: Introduction, phenomena and coping, 06/2023
- Wind turbine and high-water tanks, structural design principles, 08/2024

5.2 Hackathons At SCE

- Loading Competition for spatial structures were built by the students.
  The competition named "**Moab Maidi**" that ends with monetary reward. (3,000 NIS)
  In the years: 2018, 2019, 2020, 2021, 2022, 2023, 2024,2025.

6. Other relevant activities

6.1 Ministry of Agriculture (ISRAEL)

- As part of training professionals in climbing and tree risk assessment, I give two lectures every year in the field of Tree Orthopedics, also a two practical workshops on this subject.

6.2 Ministry of Labor (ISRAEL)

- Technical Education, Essay and exam writing for structural design- (Handasaeem), April 2024.

- Member of the Advisory Committee (One from five members) to the Registrar of Engineers, February 2025

6.3 Membership in professional/scientific societies

- IACIE -Israeli Association of Construction & Infrastructure Engineers.

6.4 Manuscript's reviewer

- The Journal of Applied science 2024;
- The Journal of Sustainability 2025;
- The Journal Discover Civil Engineering 2025;
- Journal of Building Pathology and Rehabilitation;