

Date: 16/10/2019

Curriculum Vitae

1. Personal Data

Name in Hebrew: מאיר רונן
Name in English: Meir Ronen
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2. Education Certificates and Degrees

<u>Education</u>	<u>Institute</u>	<u>Department</u>	<u>From - To</u>
First Degree	University of Genoa	Civil engineering	June 2006
Second Degree	University of Genoa	Civil engineering	June 2006

Both degrees were done together.

3. **Title of Master's Thesis:** : Non Destructive Analysis to Characterization of Chromatic Scale For Architectural Conservation Buildings.

Supervisors for field of:

Engineering- Prof. Ing. Enrico Dassori

Architectural conservation- Prof. Arch. Stefano F. Musso

4. Academic Ranks

<u>Rank</u>	<u>% Position</u>	<u>From - To</u>	<u>Institute</u>
Lecture	Part Time	01/11/2011- 01/03/2015	Western Galilee Academic
Senior Lecture	90%	01/03/2015-till now.	Western Galilee Academic

5. Active Participation in Conferences (Only from 2001)

- a. My firm and the Israeli antiquities authority partnered in the NIKER project of the European Union headed by the University of Padua in Italy. The goal of the project was to analyze the effect of earthquakes on heritage buildings. The project describes effective methods to reduce damage to antique buildings. A building in the historical center of Akko was chosen, a survey was made and a constructive plan was designed as an example for the Israeli antiquities authority.
Seminar on engineering of the NIKER project Dec' 2011.
- b. "Gvanim Ve Zeva" conference held in Tel-Aviv – including an expo in city hall under the supervision of the society for preservation of Israel heritage sites.
- c. Seminar of the committee for building engineering at "Icomos Israel " preservation engineering
- d. The International Conference on Structural Analysis of Historical Constructions (SAHC 2018) will be an event that continues the successful bi-annual series of conferences that started back in 1995. SAHC conferences are highly prestigious international events that allow sharing and dissemination of research and practice, as well as networking in this exciting field.

6. Positions Held

<u>From-To</u>	<u>Institute</u>	<u>Position</u>	<u>% Position</u>
2005-2006	Ficarra's company Alessandria	Supervision engineering	100%
2007-2012	Office of engineer Yaacov Schaffer for historical buildings	Chief engineer	100%
2012- present	Schaffer At Ronen associate in the company, specializes in conservation of historical buildings	associate	100%
2011-2013	The Western Galilee College	lecturer	
2014- present	The Western Galilee College	Senior lecturer (specialist track)	

7. Additional Professional Experience (Public Positions)

2004 The Jewish museum in Genoa, director of the expo of Mark Chagall.

8. Scientific Areas of Specialization

Technology of Historical and Antique Buildings and Their Conservation.

9. Miscellaneous

- Society for preservation of Israel heritage sites- researches in conservation engineering
- Israeli antiquities authority- researches to add sections to historical buildings in Akko
- Incomes International
- The institute of culture of Italy, Rome
- The institute of culture of Greek, Salonika
- university of Padova, Italy, the department of research and international projects
- Politechnikom, Milano the department of research of conservation buildings
- The institute of conservation , Venice Italy, research and projects

10. Areas Of Professional Expertise in Structural Engineering and Conservation

During my years I have specialized in engineering and conservation of historical and ancient structures throughout the Land of Israel, built in different eras: forts, ditches, old synagogues, theaters, baths, Mameluke and Ottoman bridges, tomb complexes religious buildings.

I served as a structural and conservation engineer in all the following projects:

Old churches

Church of the messiah:

An Anglican church near the Armenian Quarter in Jerusalem, opposite the Tower of David. *I have conducted a survey of the structure and oversaw its stabilizing, as part of my position at Eng. Yaacov Schaffer's planning office.*

Immanuel church in the American colony :

A Lutheran church located at 15th Bar Hoffman Street in the American-German Colony of Jaffa. *Due to severe cracking of the 28 m tower, throughout its entire height, I have conducted a structural survey of the building and designed the reconstruction of the tower using snad stone masonry.*

Evangelical church of Alonei Abba:

The impressive evangelical church structure is located at the heart of Alonei Abba. It was built in 1916 with a neo-gothic architectural style, following the return of some of the Templars to the Lutheran church. The building stones used in its construction were brought from Zippori River. *I have conducted a structural conservation survey of the building, within the framework of its implementation program as a concert hall and cultural activities venue.*

Monumental structures

French hospital in the old city of Jaffa, 36th Yefet street:

The French hospital was built in the 17th century and during the French conquest, Napoleon was among the patients. The hospital building belongs to the Franciscan church, and until about two years ago served as Jaffa's mental health

clinic. It was built on a 1.25 acre plot belonging to St. Joseph's church, alongside two and three story buildings with a total area of 5,000 square meters. The northern structure used to house the Franciscan Sisters convent.

I was initially part of the structural survey team, and till 2016, my office provides the structural conservation team for the entire project.

Government House compound (UN):

A government structure built in Jerusalem during the British mandate, to serve as residence and office of the British high commissioner.

My office provides the UN with structural supervision for the compound's restoration.

The Scottish house, old city of Jaffa:

Located at the heart of Jaffa, is this over one hundred year old beautiful historic building, with special and luxurious architectural design. The house was built in 1897. During its years it has housed Turkish and English residents, writers, actors and intellectuals, who provided the place with a special and mysterious atmosphere. The building was established as a hospital and later became the military HQ of the British mandate. Following the establishment of the state of Israel, it was transformed into a Hebrew educational facility for girls and eventually into a hotel, by its two Scottish owners.

Due to the collapse of the historic surrounding wall, I took part in the structural testing and designed the restoration of the northern section that was carried out.

Pool of arches, Ramla:

An underground water reservoir located in the northern part of Ramla which was dug during the time of Haroun al-Rashid (763-809), the fifth Abbasid Caliph. It is a part of the water reservoirs built during the Abbasid and is also known as "Pool of the goats", "Pool of the infidel daughter" and "Pool of Helena".

Within the scope of the structural accompaniment provided by our office to the Antiquities Authority, we have conducted a structural survey of the building and drew plans for its salvage and re-opening to the public.

Sergei courtyard on Heleni Hamalka St. in Jerusalem:

A structure located at the Russian Compound in Jerusalem, named after the son of Tsar Alexander II, Prince Sergei Alexandrovich, younger brother of Russian emperor Alexander III and uncle of Tsar Nicholas II. Sergei Courtyard is located on the corner of 13th Heleni Hamalka St. and Monbaz St., a few paces away from the busy Jaffa St., and is considered an oasis in the hustle of the city center.

I have conducted the structural survey of the compound, and we are currently in the process of the structural design for its future capacity as a hotel and cultural center.

David's tomb compound in the old city of Jerusalem:

David's Tomb is a large complex from the Crusader period, including the burial hall, the last supper room and the residential rooms of Diaspora yeshiva students.

I supervised the Antiquities Authority's structural works, carried out according to design done by our office.

Bridges:

Restoration of Mamluk bridge in Ad Halom (bombed in the war of independence):

A bridge over Lachish River, crossing highway 4 near Ashdod, 35 km south of Tel Aviv, near Ashdod south interchange. This is the northernmost location reached by the Egyptian army while invading Israel during the war of independence. After its encounter with the IDF, the Egyptian army stopped at the bridge, which was therefore named "ad halom" ("so far"). The bridge was built in the 19th century by the Ottoman rule, over the stream of "wadi Sukrir" (Lachish River), crossing the road from Yav'ne to "Al - Majdal "(Ashkelon). It was built on the foundations of a bridge from the Roman era, about three km north of the Arab town Isdud, and was named Jisr Isdud. During the great Arab Revolt, mandate authorities built a pillbox position to protect the bridge from the Arabs trying to destroy it. The IDF restored the bridge with massive concrete construction.

The architectural restoration design was carried out by the office of Prof. Architect Saadia Mandel. During the course of my work in Eng. Yaacov Schaffer's office, I conducted dynamic calculations of the Mamluk bridge's seismic resistance and designed its reconstruction and stabilization. I also served as chief supervisor during the restoration works.

Turkish rail bridge over Be'er Sheva River:

A stone arched bridge built in 1916 by the Ottoman army, as part of the "Egyptian extension" of the eastern line towards Auja al-Hafir via Quseima on the west of Sinai Peninsula, in order to lead soldiers and military equipment as part of the Ottoman-German logistical effort during the WWI battle of Sinai and the land of Israel.

My role in the project: conducting a structural survey and designing the reconstruction of the "chopped" bridge. The Reconstruction was complete at May 2017.

Historical and ancient compounds:

Stabilization of historic buildings along the Tel Aviv tram rail (Neve Tzedek) - Structural conservation consultant to the Tel Aviv municipality.

Well house compound in Jaffa - Tajjan well - Structure restoration designer.

Restoration of Kedumim square: exhibition spaces, historical museum of ancient Jaffa and Zodiac square. I performed the structural design of the building.

Rabbi Kook compound in Tel Aviv - restoration and stabilization of the rabbi's residence and reconstruction of the compound. Structural survey of the compound and the design done by my office. Until now wasn't reconstructed.

Old towers and water towers:

Plugot camp water tower

Karkur water tower

Shacharia tower - watchtower in Shacharia forest

In all projects mentioned above, as part of the design team, I conducted a structural survey to assess the preservation state, restoration and rescue plans.

Old cemeteries/tomb complexes:

Trumpeldor Cemetery - ancient monuments restoration project: *Restoration design and structural accompaniment to the burial society and Tel Aviv municipality.*

Mother Rachel's tomb - in east Jerusalem: *structural accompaniment to the archaeology officer.*

Tomb of Rabbi Shimon bar Yochai in Safed: *structural accompaniment and design for the Antiquities Authority.*

Tomb of Samuel the prophet: *structural survey and restoration design of the Main Building. .*

Courses attended:

Enrichment courses in Ariel College 2008-2009: statics of structures 2, engineer's building, foundation engineering and structural dynamics. (Keeping up to date and studying Israeli standards).

Wind loads course, in accordance with SI 414, June 2010 at the Technion engineers association.

ATIR STRAP drawing, calculation and simulation software course for structural engineers.

Time management workshop - ZOZ Company.

Publications

Meir Ronen

Refereed Publications

פרסומים שפיטים .א

Articles and Chapters in Books

*Materiali e Strutture – Nuova serie IV numero 7, 2015, I restauro nel mondo, Fiorani D. ,
2015, La conservazione dei siti storici e archeologici in Israele, Yaacov Schaffer, Meir Ronen*

Articles in periodicals

הנדסת בנייה ותשתיות, גיליון 74, דצמבר 2017, אתגרי שימור, ייצוב וחידוש מבני במתחם
"חצר סרגיי" בירושלים, א.פדן, מ.רון.
מבנים, עיתון לענף הבנייה, גיליון 325, מאי-יוני 2017, גשרים תכנון הנדסי, שימור ושחזור
הגשר העותמאני בב"ש, מ.רון

Accepted for Publication

1. **The identification of horizontal wooden beams in the walls of historic buildings in Safed: First stage in research** Y. Schaffer, A. Levy, M. Ronen, A. Hilman
2. **Mechanical characterization of masonry typologies in Israel via flat jack tests** F. Casarin, M. Ronen, Y. Schaffer, R. Italia, M.D Benetta, E. Cescatti