



## Curriculum Vitae: **Mehdi SEGHIRI**

31 years old

Algerian Nationality

Single

### Personal address

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Algeria

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### Professional address

Civil Engineering & hydraulic department,  
Faculty of Applied Science, BP 511, 30000  
KASDI MERBAH University, Ouargla, Algeria.

## **CERTIFIED FORMATION AND COMPETITIVE EXAMS**

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**MARCH 2020:** Doctorate Degree in Civil Engineering – “Geo-materials” from KASDI MERBAH University, Ouargla, Algeria.

### **Doctorate title & research description:**

Doctorate title is “study of a composite material based on sand-polymer in arid zones”.

The research project is aimed at studying the possibility of using recycled high-density polyethylene (HDPER) as a binder for the production of roofing tiles / tiles intended to replace conventional building materials such as clay and cement and study the effect of total replacement of (HDPER) by (HDPE) noble grade 5502 on the improvement of the characteristics of roofing tiles.

**2013:** Master’s degree in Civil Engineering “Track & structure” from Mentouri University, Constantine, Algeria

**2011:** Bachelor’s degree in Civil Engineering “Structural mechanics” from Mentouri University, Constantine, Algeria

**2008:** Algerian secondary school diploma “BAC” Life and Nature Sciences.

## **ACADEMIC ACTIVITIES**

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**Teaching** at Kasdi Merbah University, Faculty of Applied Science, Civil Engineering & Hydraulic department, Ouargla, Algeria.

- **2014:** Practical experiences for waves and vibration (2nd year LMD Civil Engineering).
- **2015:** Course of Construction materials (2nd year LMD Civil Engineering).  
Practical experiences for soil mechanics (2nd year LMD Civil Engineering).
- **2016:** Practical experiences for waves and vibration (2nd year LMD Civil Engineering).
- **2017:** Practical experiences for Construction materials (2nd year LMD Civil Engineering).

**Supervising:** Master’s thesis:

- Thesis title: Characteristics of Composites Tiles Based on Sand Dune and High-Density Polyethylene (Recycled / Noble).
- Thesis title: Performances of the palm waste composite material (on going)

**Reviewing:**

- Area of expertise: Composite materials, at “Iranian Polymer Journal”, Springer International Publishing AG.
- Area of expertise: Ceramic materials, at “Chemical papers Journal”, Springer International Publishing AG.

## **SCIENTIFIC PRODUCTION**

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- Publication of articles:
  - The Possibility of Making a Composite Material from Waste Plastic, Energy Procedia, 2017.

- Experimental study and comparison between the use of natural and artificial coarse aggregate in concrete mixture, Energy Procedia, 2017.
- Participation in the International Conference on Technologies and materials for Renewable Energy, Environment and Sustainability (TMREES17) 21-24 April 2017, Beirut – Lebanon
- Participation in the International Conference in civil engineer (SIGC 2018). ENPO-MA, 27&28 November 2018, Oran – Algeria.

## **DEGREES AND CERTIFICATES**

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- Certificate of Algerian secondary school diploma “BAC”
- Certificate of Bachelor’s degree in Civil Engineering, option: Structural mechanics
- Certificate of Master’s degree in Civil Engineering, option: Track & structure
- Doctorate Degree LMD in Civil Engineering -Option: Geo-materials (ongoing)
- (02) Certificate of participation in the International Conference on Technologies and materials for Renewable Energy, Environment and Sustainability (TMREES17) 21-24 April 2017, Beirut – Lebanon
- (02) Certificate of participation in the International Conference in civil engineer (SIGC 2018). ENPO-MA, 27&28 November 2018, Oran – Algeria.
- Work certificate at Trim art / Algerian Company of design office and monitoring building.
- Work certificate at Next art promotion / Algerian Company of design office and monitoring building.

## **PROFESSIONAL EXPERIENCE**

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**From June 2016 til now:** Engineer Visa (Approval execution studies) and Civil Engineering supervisor in the National Company SAETI - in the group of design offices and assistance of the Contracting Authority Ministry of energy

**Project;** Studies & execution of the New City of Hassi Messaoud

- APD analysis approval: Lot N ° 15: Technical Gallery
- Approval of Plan Engineering Guide:
  - Lot N ° 05: Drinking water treatment station
  - Lot N ° 05: Pumping station and reservoir of the New City and the ZAL.
- Approval of Civil Engineering execution studies:
  - Lot N ° 15: Technical gallery: this project consists of the construction of an underground technical gallery of about 7.3 km in length, in the shape of a rectangular box, located at an average depth between 6 and 10 m. the implementation and maintenance of the various networks is done through the singular elements: Connection, Ventilation hopper, Drain well, Passage for electrical and hydraulic equipment, manholes and entrances.
- Approval of Architecture execution studies:
  - Lot N ° 03: Rainwater retention basin NA (279.47m3), ZC (209.41 m3). NB, NC, ZA, ZB, ZD, ZE and ZF.
  - Lot N ° 04: Wastewater treatment plant: Lifting Pumping and Pre-treatment, Transformer Station and Electric Building Aeration, Disinfection and Chlorination, Sludge Mixing Tank, Sludge Stabilization, Transformer Station and Electric Sludge Building, Control Building, Electric Delivery Station.
  - Lot N ° 04: Lift station (VN and ZAL) and Delivery station (City & ZAI)
  - Lot N ° 05: Cooling station (City and ZAL).
- Preparation of reports on modifications studies
- Approval of materials documents
- Participation in monthly meetings with general manager of EVNH, GBET (SAETI, NEE, LTPS) & GRHM (Procel BIB, MES, Pointec and Dégerement).
- Supervisor of civil engineering works: Irrigation Complex, Drinking Water Treatment Complex, Wastewater Treatment Plant, Technical Landfill Center:
  - Discuss problems seeking solutions.
  - Ensure the quality of work according to the plans, standards and technical specifications of the project.
  - Approve materials (quality of materials).
  - Check certificate of different materials, machines, devices used in the project.

**From December 2014 to November 2015:** Civil Engineering Engineer - responsible for studying Civil Engineering within the private design office TRIUMART.

**Project;** Transrhmel Viaduct and Its Access to Constantine. Algeria

**Mission :**

- Study of the formwork of two (02) bridges for the subcontractor Sero-Est of the company Andred Gutierrez:
  - Study of the bridge formwork: OP-CON2 overpass, with a span of 22.6m
  - Study of the bridge formwork: OP-N5 overpass with three continuous spans with a main span of 42.5m.

**Project;** Shopping Centre in New city Ali Mendjeli (UV.07) Constantine. Algeria.

**Mission :**

- Design Engineer responsible for the civil engineering study of the Shopping Centre: (02) basement + ground floor + 5 Floors.

**Project;** 712 Promotional homes, Shopping locals, offices and a multifunctional Centre. City Seybouse - Annaba. Algeria.

**Mission:**

- Design Engineer responsible for the civil engineering study of 712 housing (5 buildings of R + 14 Floors.).

**Project;** East Cardiovascular Centre. Zouaghi – Constantine. Algeria.

**Mission:**

- Design Engineer responsible for the civil engineering study of an East Cardiovascular Centre: (03) basements + R + 5 Floors.

**Project;** High school with capacity of 1000/300 R in Belkhir –Guelma. Algeria.

**Mission:**

- Design Engineer responsible for the civil engineering study of high school with capacity of 1000/300 R:
  - Consists of 4 blocks of R + 3, refectory, foyer forms a semicircle, refectory and functional accommodation (R + 2 + laundry) for the DLEP of Guelma. Algeria.

**Project;** Professional training center (CFPA) in boumahra Ahmed - Guelma. Algeria.

- Civil engineer in charge of the Verification of a Professional Training Center (CFPA) Guelma. Algeria.

**From October 2012 to October 2014:** Design Engineer responsible for the civil engineering study and Supervisor work within the company: Next Art Promotion with collaboration Algerian company of design office and building monitoring TRIUMART.

- Monitoring of 02 Scada projects in Skikda and Bejaia (construction work for repeater stations and their tracks).
- Monitoring part of a research unit in environmental chemistry CHEMS- (university of Mentouri Constantine. Algeria.

## **COMPUTER KNOWLEDGE AND SKILLS**

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- SAP2000, ETABS, ROBOT.
- PROKON, CSI bridges
- Auto-CAD. Auto-cad structural detailing
- Microsoft office: (Word, Excel, PowerPoint).

## **LANGUAGES**

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- ✓ **Arab:** native language
- ✓ **French:** Conversational French, working knowledge, my principal language for university studies.
- ✓ **English:** Conversational English, working knowledge,

## **HOBBIES AND INTERESTS**

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- Watching movies.
- traveling

## **OTHERS**

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- Driver licence class B
- A valid passport.
- Able to travel (internal-external).

- Good internet knowledge.