



DR. MOHAMMAD FADHIL HAMA

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Date of Birth: 17/07/1990

QUALIFICATIONS SUMMARY

- Knowledgeable Structural Engineer, Concrete materials, proficient in gathering data, completing evaluations, and making recommendations for future projects.
- Scholarship from the University of Nottingham for a PhD study.
- Skilled in AutoCAD, Revit, Inventor, Tecla Tedds, Primavera, MicroStation, Scia Engineer, GSA oases, Sketchup, and Microsoft office.
- Accredited for teaching at Higher Educational Institutions by the Ministry of Higher Education & Scientific Research, and the University of Nottingham.
- Obtained my Academic title in Jan. 2024
- Degrees equalized by the Ministry of Higher Education & Scientific Research

EDUCATION

Doctor of Philosophy (Ph.D.) | University of Nottingham (Malaysia campus) ([Link](#))
[2020] – [2024]

- Major: Civil engineering
- Thesis: Assessing the Viability of Tenera Oil Palm Shells as Fine and Coarse Aggregates in Structural Lightweight Concrete: Microstructure and Mechanical Properties
- Supervisors:
Associate Prof. Mohammed Parvez Anwar ([Profile](#))
Associate Prof. Teck Leong Lau ([Profile](#))

Master of Science (M.Sc.) | Nottingham Trent University, UK ([Link](#))
[2012] – [2013]

- 76.4 / 100% [Distinction]
- Major: Structural engineering with Materials
- Dissertation: Application of Lock-in Thermography for Detecting Leakage Defects in Historic Masonry Arch Structures
- Supervisor:
Prof. Mujib Rahman ([Profile](#))

Bachelor of Science (B.Sc.) | University of Bahrain, Bahrain ([Link](#))
[2008] – [2012]

- [2.99 out of 4.00] GPA
- Major: Civil engineering
- Senior project: Method of design and estimating the service life of interlock concrete pavement (ICP)
- Supervisor: Assistant Prof. Raad Kadhum ([Profile](#))

WORK EXPERIENCES

Assistant Lecturer | Cihan University Sulaymaniyah, Iraq, KRG | [2023] – [Current]

Tutorial instructor and lab demonstrator of the courses:

- Estimation & Specifications
- Building Element I & II

- Computer Skills - Revit I & II
- Project Management

Research Assistant | University of Nottingham (Malaysia campus) | [2021] – [2023]

Tutorial instructor and lab demonstrator of the courses:

- Static Analysis lab
- Ansys lab
- Concrete Mixing Lab
- Structural Concrete Design Lab

Assistant Lecturer | Tishk International University, Iraq, KRG | [2020] – [2021]

Tutorial instructor of the courses:

- Estimation & Specifications
- Geology of Civil Engineers

Structural Engineer | Optimise Structure Design, UK | [2020] – [Current]

Working as a structural designer as well as 2D and 3D drawings and make up structural reports for calculations such as:

- Steel beams and columns
- Lintels
- Foundations
- Bearing walls
- Timber floors and rafters.

Main software's used: AutoCAD, Revit, Word, and Tecla Tedds

Reviewer | [2021] – present

- Advanced Engineering Forum - ISSN: 2234-991X
- Eurasian Journal of Science and Engineering – ISSN: 2414-5602

UG student supervisor | University of Nottingham (Malaysia campus) | [2020] – [2023]

- Supervising undergraduate students with their final year projects
- Student projects mostly involved with concrete mixing laboratory.

Construction Engineer | Raedat Al Tameer Co., Iraq, KRG | [2019] – [2020]

My main role was to manage construction works for a housing project consisting of 500+ housings. The jobs consisted of various works such as:

- Electrical, plumbing, and HVAC works.
- Change interior plans (existing walls, doors, and windows).
- Add additional rooms on upper floors.
- Manage material supplies.
- Manage laborers' work.

Structural Engineer | Sweco, Netherlands | [2016] – [2019]

Working in the rail department, I mainly designed structural components related to high-speed trains and city trams involving:

- Catenary lines
- Steel poles and H sections
- Traffic lights position design.

Main software's used: MicroStation, Scia Engineer, Inventor, Excell, and Word

Assistant Lecturer | Soran University, Iraq, KRG | [2014] – [2015]

Tutorial instructor of the courses:

- Engineering Statics
- Mechanics of Materials

QA/QC Engineer | Kooheji Contractors | [2013] – [2014]

My main duties were to inspect and draft reports for all the works from foundation up to finishing works, as well as materials delivered to site. I worked in projects such as:

- Twin towers 20 story buildings
- US Navy base
- Various projects of the company

Internship | Bahrain foundation construction company | [Jun. 2011-Aug. 2011]

- Inspect the placement of driven in-situ cast concrete piles for buildings and bridges.
- Test piles after hardening with pile integrity test.

Internship | Urban vision | [Jun. 2010-Aug. 2010]

- Draft daily reports on different tasks involved for a mall construction.

- Inspect the work on site such as concrete slump, formwork, steel work, and concrete finishing.
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CERTIFICATES

- **Academic Title, Ministry of Higher Education & Scientific Research | Issued Jan. 2024. No Expiration Date ([Link](#))**
 - **Postgraduate Student Teachers certificate, University of Nottingham (Malaysia campus) | Issued May 2023. No Expiration Date:**
 - Preparing to Teach in Higher Education
 - Demonstrating in Laboratory Practical
 - Marking and Assessment
 - Small Group Teaching
 - **Researcher Development Programme, University of Nottingham (Malaysia campus) | Issued Apr. 2022. No Expiration Date**
 - **Pedagogy Training Course, Ministry of Higher Education & Scientific Research | Issued June 2020. No Expiration Date ([Link](#))**
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PUBLICATIONS

- **Mohammed Fadhil Hama**, Mohammed Parvez Anwar, Teck Leong Lau, 2023, Oil Palm Shell Concrete (OPSC): A Short Review, Suranaree Journal of Science and Technology, 30 (3), 1-19. DOI: [10.55766/sujst-2023-03-e02353](https://doi.org/10.55766/sujst-2023-03-e02353)
 - **Mohammed Fadhil Hama**, Mohammed Parvez Anwar, Teck Leong Lau, and Daryl Chun Pinn Ng, 2023. Influence of superplasticizer dosage on the workability and compressive strength of Tenera oil palm shell concrete, Journal of Advanced Research in Applied Sciences and Engineering Technology, 31(1), 383-394. DOI: <https://doi.org/10.37934/araset.31.1.383394>
 - **Mohammed Fadhil Hama**, Mohammed Parvez Anwar, Teck Leong Lau, and Daryl Chun Pinn Ng, 2022. Emerging Tenera Oil Palm Shell Concrete: Mix Design and Cost Analyses, In: IOP Conference Series: Earth and Environmental Science, 1205 012054, DOI: <http://dx.doi.org/10.1088/1755-1315/1205/1/012054>
 - Daryl Chun Pinn Ng, Teck Leong Lau, Mohammed Parvez Anwar, Wael Elleithy, and **Mohammed Fadhil Hama**, 2022. Effects of Treatment for Raw Oil Palm Shell on Compressive Strength of Oil Palm Shell Concrete, In: IOP Conference Series: Earth and Environmental Science, 1205 012027, DOI: <http://dx.doi.org/10.1088/1755-1315/1205/1/012027>
 - **Mohammed Fadhil Hama**, Mohammed Parvez Anwar, and Teck Leong Lau, 2022. Effect of Elevated temperatures on Tenera Oil Palm Shell Concrete on Compressive Strength and Weight Loss, Journal of Mechanical Engineering, 11(1), 319-332, DOI: <http://dx.doi.org/10.24191/jmeche.v11i1.23610>
 - **Mohammed Fadhil Hama** and Ilham Ibrahim Mohammed, 2021. Application of Lock-In Thermography for Detecting Leakage Defects in Historic Masonry Arch Structures, Eurasian Journal of Science and Engineering. 7 (1), 134-154, DOI: <http://dx.doi.org/10.23918/eajse.v7i1p134>
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RESEARCH INTERESTS

- Concrete mix design, Lightweight concrete, Nano-Concrete, High Strength concrete, Concrete made with recycled materials as aggregates, Pozzolanic materials as cement replacement, Fibre reinforced concrete, Natural waste products as aggregates in concrete, high early strength concrete.
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SKILLS

Structural analysis software's: Scia Engineer, Tecla Tedds, GSA oases, and Inventor

Microsoft: Microsoft Office

CAD software's: Revit, AutoCAD, Microstation, Sketchup

Scheduling: Primavera



LANGUAGES

Kurdish: Native

Arabic: Good proficiency

English: Bilingual proficiency

(IELTS score: 7)

References are available upon request