

MOSTAFA SADEGHNEJAD LIMOOEE

Assistant Prof. -----Road and Transportation Engineer

(Special Focus on Asphalt Pavement and Geometric Design)



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Date of Birth : 06/02/1989

✉️ : mostafa.sadeghnejad@guilan.ac.ir

Gender : Male

📍 : University of Guilan, Rasht, Guilan.

Marital Status : Married

Nationality : Iran

As a specialist in asphalt pavement mixtures, I possess a deep understanding of the materials, processes, and technologies involved in creating durable and high-quality asphalt pavements. My expertise allows me to design asphalt mixtures that meet specific performance requirements, such as strength, durability, and resistance to various environmental factors. I am adept at selecting the right combination of aggregates, binders, and additives to achieve the desired properties of the asphalt mixture. My knowledge of the latest industry standards and best practices ensures that the pavement I design will meet or exceed regulatory requirements and industry expectations. I am skilled at conducting laboratory testing and analysis to evaluate the performance characteristics of asphalt mixtures, as well as field testing to assess the pavement's performance under real-world conditions. My ability to interpret test results and make informed recommendations for optimizing asphalt mix designs sets me apart as a valuable asset in the field of pavement engineering. Overall, my expertise as a specialist in asphalt pavement mixtures enables me to contribute to the development of sustainable, cost-effective, and long-lasting asphalt pavements that enhance the safety and efficiency of transportation infrastructure. Also, as a road and transportation engineering professional, I have a strong foundation in geometric designing, planning, and implementing Road and Highways projects.

💼 Work Experience

December 2014 - **Road And Transportation Enginner**
March 2022

Iran Oston Consulting Engineers

Tehran, Tehran

I was a Geometric Road Designer, Road Pavement Designer, and Traffic Engineer. I specialize in designing roads and highways, calculating pavement thickness and materials, and optimizing traffic flow for efficient and safe transportation systems.

March 2022 - **Assistant Professor**
Till Date

University Of Guilan

Rasht,

An assistant professor in in Civil Engineering Department, Focused on the

Guilan

Education

September 2007	Civil Engineering - University Of Guilan	
July 2011	Bachelor Of Engineering	Rasht, Guilan.
September 2007	Road And Transportation Engineering - University Of Guilan	
August 2013	Master Of Engineering	Rasht, Guilan.
September 2013	Road And Transportation Engineering - Semnan University	
February 2018	Ph.D.	Semnan, Semnan.

Publications

1. Shafabakhsh Gh, Mirabdolazimi SM, Sadeghnejad M. Evaluation the effect of nano-TiO₂ on the rutting and fatigue behavior of asphalt mixtures. *Construction and Building Materials*. 2014 Mar; 54: 566–71.
2. Shafabakhsh GH, Sadeghnejad M, Sajed Y. Case study of rutting performance of HMA modified with waste rubber powder. *Case Studies in Construction Materials*. 2014; 1: 69–76.
3. Arabani M, Jamshidi R, Sadeghnejad M. Using of 2D finite element modeling to predict the glasphalt mixture rutting behavior. *Construction and Building Materials*. 2014 Oct; 68:183–91.
4. Shafabakhsh Gh, Taghipoor M, Sadeghnejad M, Tahami SA. Evaluating the effect of additives on improving asphalt mixtures fatigue behavior. *Construction and Building Materials*. 2015 Aug; 90: 59–67.
5. Shafabakhsh GH, Faramarzi M, Sadeghnejad M. Use of Surface Free Energy method to evaluate the moisture susceptibility of sulfur extended asphalts modified with antistripping agents. *Construction and Building Materials*. 2015 Nov;98:456–64.
6. Sadeghnejad M, Shafabakhsh G. Use of Nano SiO₂ and Nano TiO₂ to improve the mechanical behaviour of stone mastic asphalt mixtures. *Construction and Building Materials*. 2017 Dec;157:965–74.
7. Sadeghnejad M, Arabani M, Taghipoor M. Predicting the impact of temperature and stress on the glasphalt mixtures' rutting behavior. *International Journal of Pavement Research and Technology*. 2018 May;11(3):300–10.
8. Shafabakhsh GA, Sadeghnejad M, Ahoor B, Taheri E. Laboratory experiment on the effect of nano SiO₂ and TiO₂ on short and long-term aging behavior of bitumen. *Construction*

and Building Materials. 2020 Mar;237:117640.

9. Shafabakhsh G, Sadeghnejad M, Ebrahimnia R. Fracture resistance of asphalt mixtures under mixed-mode I/II loading at low-temperature: Without and with nano SiO₂. Construction and Building Materials. 2021 Jan;266:120954.
10. Shafabakhsh GA, Sadeghnejad M, Alizadeh S. ENGINEERING THE EFFECT OF NANOMATERIALS ON BITUMEN AND ASPHALT MIXTURE PROPERTIES. A REVIEW. Baltic Journal of Road and Bridge Engineering. 2023;18(2).
11. Hamedipour AM, Shafabakhsh G, Sadeghnejad M. The Impact of Nano-TiO₂ Particles on the Moisture Susceptibility and Fracture Toughness of HMA under Mixed-Mode I/II Loading and Various Crack Geometry and Temperatures. Journal of Materials in Civil Engineering. 2023;35(3).
12. Alizadeh S, Shafabakhsh G, Sadeghnejad M. Sustainable asphalt mixtures: enhancing environmental impact by partial fine aggregate substitution with rubber powder and bitumen modification using Nano-SiO₂. International Journal of Pavement Engineering. 2023 Jan 28;24(2).
13. Shafabakhsh G, Sadeghnejad M, Hejazi SK, Shirazi A. Evaluation the Rheological Behavior of Asphalt Binder, Fracture Resistance and Moisture Susceptibility of Asphalt Mixtures: Before and After Adding Nano Fe₂O₃. International Journal of Pavement Research and Technology. 2024 May 6;
14. Arabani M, Sadeghnejad M, Haghaniour J, Hassanjani MH. The influence of rice bran oil and nano-calcium oxide into bitumen as sustainable modifiers. Case Studies in Construction Materials. 2024 Dec;21:e03458.
15. Keneshlou M, Shafabakhsh G, Sadeghnejad M. Experimental and Statistical Investigation of the Effect of Nano Al₂O₃ on Asphalt Mixture Resistance against Low Temperature Cracking and Moisture Susceptibility. Journal of Materials in Civil Engineering. 2024 Sep;36(9).
16. Shafabakhsh G, Sadeghnejad M, Daraei I, Sabbaghian H, Ebrahimnia R. The effect of Nano-CaO modified binder on the rutting and fatigue performance of asphalt mixtures. Case Studies in Construction Materials. 2024 Dec;21:e03757.

Skills

Data Analysis	★★★★★	Writing Paper	★★★★★
Team Work	★★★★★	Asphalt Experiments	★★★★★

⌚ Software

Microsoft Office Word	★★★★★	Microsoft	★★★★★
Powerpoint	★★★★★	Office Excel	
Autocad Civil 3D	★★★★★	Autocad	★★★★★

🏳️ Language

English	★★★★★	Persian	★★★★★
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☒ Hobbies

Family Movie Music Walking

Esteghlal (The Best Iranian Football Club)

Trip
