



Shahab Aldin Mansouri

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EDUCATION AND TRAINING

INTERNSHIP, RESEARCH ENGINEER

MOST (Centro Nazionale per la Mobilità Sostenibile) [01/2024 – 05/2024]

City: Rome | Country: Italy | Field(s) of study: Railway Track Maintenance

- **Risk and Asset Management Standards:** Developed expertise in risk and asset management standards by comparing and integrating key rail safety regulations for track maintenance, including EU 2016/798, EU 2018/762, EU 2013/402, EU 2012/1078, EN 50126, EN 13848, EN 13306, ISO 55000, and ISO 31000.
- **Expert Collaboration:** Collaborated with experts to identify key criteria and attributes essential for effective track maintenance planning.
- **Data Analysis, Verification, and Algorithm Development:** Utilized real-world data for analysis and verification while developing algorithms to assess large datasets of rail track maintenance records.
- **Machine Learning Implementation:** Implemented and fine-tuned machine learning models to enhance predictive maintenance strategies.

Master's degree, Transport System Engineering

Sapienza Università di Roma [2021 – 2024]

City: Rome | Country: Italy

Master's degree, Road Construction

Islamic Azad University, Science And Research Branch [2012 – 2016]

City: Tehran | Country: Iran

Bachelor's degree, Civil Engineering

Shomal University [2006 – 2011]

City: Amol | Country: Iran

WORK EXPERIENCE

PROJECT MANAGER

Armin Tahlil (Road & Building Construction) [2019 – 2021]

City: Tehran | Country: Iran

- **Budget Management:** Successfully reduced project expenses by up to 20% across several projects by implementing creative and cost-effective solutions. Supervised cost estimation and managed procurement processes.
- **Risk Management:** Managed projects in high-inflation environments with significant penalties, effectively mitigating risks to ensure successful project outcomes.

- **Supervision and Organization:** Oversaw and organized work activities, ensuring efficiency and strict adherence to project timelines.
- **Stakeholder Coordination:** Collaborated with architects, engineers, contractors, and other stakeholders to achieve project objectives.

TECHNICAL PROJECT COORDINATOR

Armin Tahlil (Road & Building Construction) [2015 – 2019]

City: Tehran | Country: Iran

- **Proposal Preparation:** Contributed to developing proposals and assignments, enhancing project planning and execution.
- **Bidding Coordination:** Prepared and coordinated bids for projects, gathering technical specifications, ensuring compliance with bid requirements, and collaborating with various departments to compile comprehensive bid proposals.
- **Technical Guidance:** Provided comprehensive and advanced technical guidance, ensuring high-quality standards and problem resolution.
- **Quality Assurance:** Supervised all phases of design, rehabilitation, and inspection, ensuring full compliance with relevant standards.

SITE ENGINEER

Armin Tahlil (Road & Building Construction) [2012 – 2015]

City: Tehran | Country: Iran

- **Technical Support:** Provided technical advice, interpreted and explained plans and contract terms, and ensured the correct construction techniques and materials were utilized.
- **Decision Making & Problem Solving:** Identified and resolved issues that arose during the construction process. Adapted the project to changes or unexpected challenges.
- **Resource Management:** Monitored and managed waste disposal and the use of resources.
- **Safety Management:** Implemented safety protocols and procedures.
- **Measurement and Cost Control:** Measured and recorded the use of materials and work completed.

CIVIL ENGINEER INTERN

Armin Tahlil (Road & Building Construction) [2011 – 2012]

City: Tehran | Country: Iran

CREATIVE WORKS

[10/2023 – 05/2024]

Risk-Based Framework for Track Maintenance Prioritization: MCDM-ML integration

- A novel and innovative risk-based framework for prioritizing rail track segments for maintenance, designed and proposed in my master's thesis. This framework integrates multi-criteria decision-making and machine learning methods, aligned with ISO guidelines and European legislation.

CONFERENCES AND SEMINARS

[07/2024 – 07/2024] Rome

STAFFER:

- Engaging seminars on the evolution of railway signaling systems, safety management, and green mobility, accompanied by guided visits to key railway facilities, including the RFI traffic control center, Trenitalia's operation control rooms, and Alstom's laboratories.

CERTIFICATIONS

[04/2013 – 08/2013]

Estimation & Contract Regulations, Tehran Institute of Technology

[15/03/2023 – 21/03/2023]

PTV Academic Exercises – Visum, Vissim & Viswalk

DIGITAL SKILLS

Microsoft Project / Python / Civil-3D / ETABS / SAP2000 / AutoCAD