# Sina Shahidzadeh Arabani

**Date of birth:** ▉▉▉▉▉▉ | **Nationality:** Iranian | **Phone:** ▉▉▉▉▉▉▉▉▉▉ | **Email:**

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## WORK EXPERIENCE

01/04/2014 – 01/09/2015 Tehran, Iran
**FREELANCE LAND SURVEYOR**

• Surveying, mapping and cartography of "Police park" in district 4 of Tehran

01/10/2014 – 01/09/2017 Pakdasht, Iran
**GEOMATICS ENGINEER** ALEJPARS COMPANY

• Designing site grading for site planning of the Iran Meteorological Organization Research Facility in the Tehransar district,
• Calculating soil excavation and embankment volumes of Alejpars's open-pit soil mines
• Ensuring the correctness of technical data submitted in reports
• Conducting technical analyses of survey and field data for the development of topographic maps

01/07/2015 – 01/09/2017 Tehran, Iran
**GEOMATICS ENGINEER** AFARINESH-VAHDAT CONSULTING FIRM

■ Executing mapping projects using CAD drafting and 2D/3D analysis involving land surveys for over 40 kilometres of Varamin and Rey City rural roads
■ Designing, analyzing and drafting plans and cross-sections for the construction and rehabilitation of Varamin's rural roads

01/06/2021 – 01/09/2022 Rome, Italy
**RESEARCH FELLOW** SAPIENZA UNIVERSITY OF ROME

• Research fellow in EU funded GEARBODIES project

## EDUCATION AND TRAINING

01/09/2008 – 01/09/2013 Tehran, Iran
**BACHELOR OF SCIENCE IN GEOMATICS ENGINEERING** K.N. Toosi University of Technology (KNTU)

Thesis title: Measuring Solar Irradiance & Surface Albedo Using Field Measurement Instruments
Supervisor: Dr. Mahmoud R. Sahebi

01/09/2017 – 01/10/2020 Rome, Italy
**MASTER OF SCIENCE IN TRANSPORT SYSTEMS ENGINEERING** Sapienza University of Rome

Thesis title: Impacts on Maintenance Costs of Innovative Track-Friendly Actively-Steered Metro Running Gear
Supervisor: Riccardo LICCIARDELLO
Grade: 105/110

01/10/2022 – CURRENT Rome, Italy
**PH.D. (EUROPEAN DOCTOR DEGREE), INFRASTRUCTURE AND TRANSPORT SYSTEMS ENGINEERING**
Sapienza University of Rome

• Task leader of Task 4.3 and Task 3.3 of Project MOST SPOKE 4

## LANGUAGE SKILLS

Mother tongue(s):   **PERSIAN**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken production | Spoken interaction | |
| **ENGLISH** | C2 | C2 | C1 | C1 | C1 |
| **ITALIAN** | C1 | C1 | B1 | B2 | B1 |

*Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user*

## DIGITAL SKILLS

Matlab/Simulik  |  Python Language - Basic knowledge  |  Proficient with Civil 3D  |  AutoCad 2D -3D  |  Microsoft Office  |  ArcMap (Basic)  |  Fundamental ArcGIS  |  Leica geo office, 2019  |  Multibody Dynamics - SIMPACK

## PUBLICATIONS

2023
**Track geometry monitoring by an on-board computer-vision-based sensor system**

2022
**Improving train accessibility: lessons learned from the CARBODIN project // Migliorare l'accessibilità dei treni: lezioni apprese dal progetto CARBODIN**

Piccioni, Cristiana; Ricci, Stefano; Shahidzadeh Arabani, Sina; Karatzas, Polis.

## MANAGEMENT & LEADERSHIP SKILLS

### Task leading and management

- I led sub-tasks in the GEARBODIES project, enhancing rail maintenance efficiency and contributing to cost-effective, long-lasting trains in Europe.
- I am managing two key tasks in the MOST project (SPOKE 4), ensuring timely progress and successful outcomes aligned with project goals.

## COMMUNICATION AND INTERPERSONAL SKILLS

### Teamwork

I have worked in various teams in the field and office environments.