

CONTACT
INFORMATION

Construction Engineering Research Lab, CECE Dep't,
University of Central Florida, Orlando, FL, USA.

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ACADEMIC
TRAINING

- **Ph.D. University of Central Florida** (2017-Present)
 - Major: Civil Engineering, Construction Management (GPA: 3.92 out of 4.0)
 - Advisor: Dr. Amr Oloufa
 - Autonomous Vehicles (AVs) | P3 Highway Investment Optimization | Business Management
 - Expected graduation date: November 2019
- **N.D. Udacity** (2017-2018)
 - Business Predictive Analysis, Nano-degree program
- **MSc. Iran University of Science and Technology** (2013-2016)
 - Major: Civil and Environment Engineering Department, 2016
- **PMP Project Management Institute (PMI)** (2015-Present)
 - 11 June 2015, PMP Number: 1821142
- **B.Sc. Amirkabir University of Technology (Polytechnic)** (2008-2013)
 - Major: Civil and Environment Engineering Department

WORK
EXPERIENCE

- **Construction Engineering Research Lab (CERL), Ph.D. Teacher Assistant Scholar** (2017-present)
 - Directed by Dr. Oloufa, research's focus is mainly on Autonomous Vehicles Model for Public-Private-Partnership Investment in Highway Construction
- **Javidan Group Residential Building, Associate Project Manager** (2015-2017)
 - Managed Financial and Technical aspects of the eight-story concrete building project (21600 square foot)
- **Stratus International Contracting Company, Civil Engineer** (2011-2015)
 - Prepared Project Management Plan for Vavan residential town project.
- **Moutabar Building Company, Civil Engineer** (2010-2011)
 - Prepared Project Management Plan of Building Dams in Zanjan and Kurdistan.
- **Amirkabir University of Technology Laboratory, Research Engineer** (2009-2010)
 - Research at construction lab during national concrete competition

SKILLS

- **Business Analytics:** Managerial Accounting, Predictive Business Knowledge
- **Data Analysis:** Python, SPSS, Advanced Microsoft Excel, Power BI
- **Project Management:** PMP, MS Project, Primavera
- **Other Software:** Tableau, AutoCAD

HONORS AND AWARDS

- **UCF Graduate Scholarship** (2017)
 - Scholarship for doctoral studies with full financial support from UCF, Orlando, FL
- **Ranked among top 0.5%** of nationwide Civil Engineering entrance exam participants, 2013
- **1st Place Award Fifth National Concrete Competition**
 - Structural Lightweight Concrete, Tehran, Iran, 2010
- **Ranked among top 0.3%** of more than 300,000 participants in the nationwide Universities entrance exam, 2008

PUBLICATIONS

- Shojaei, A., Mahdavian, A., Revisiting systems and applications of artificial neural networks in construction and management, ISEC (2018), Hawaii
- Mahdavian, A., Shojaei, A., The impact of Autonomous vehicles and urbanization pattern on Florida's traffic projections, ASCE i3E (2018)
- Mahdavian, A., Shojaei, A., Highway public-private partnerships construction best financial practices, ASCE (2018)
- Mahdavian, A., Mohseni, A., Constructability concepts significance and implementation, ASCE (2018)
- Mahdavian, A., Abbasnia, R., Ghoddousi, P., Modeling of concrete buildings with different structure systems and BIM-based Simulation of the models with various management parameters, as my MSc Thesis, Iran Construction Management Conference, (2017)
- Mahdavian, A., Sebt, M., Calibration of ACI codes due to light-weight concrete from the aspect of domestic materials of Iran , Amirkabir University of Technology, (2013)
- Mahdavian, A., Teymouri, M., Talae, S., The effect of ratio of aggregate volume to cement paste volume on strength, density and the cost of structural lightweight concrete, 10th International Congress on Advances in Civil Engineering, 17-19 October (2012) ,Middle East Technical University, Ankara, Turkey
- Ranjbar, E., Mahdavian, A., , Maknoon, R., Investigation on using afloat perlite lightweight concrete in order to reduce evaporation of dam's storage, Tehran, Iran, November (2012)
- Mahdavian, A., Shahverdy, A., Physics book for College Entrance exam Kelk Moallem Sajedi Publication, Tehran, Iran, (2009)

SELECTED COURSES

- **Graduate-level Courses:**
 - Managerial Accounting Big Data Analysis (A), Regional Planning and Design Development (A), Algorithms Models Smart Cities (A), Project Engineering (A), Infrastructure Systems Management (A)

ACTIVITIES

- Reviewer and Member of American Society of Civil Engineers (**ASCE**)
- Member of Project Management Institute (**PMI**)
- Member of Leadership in Energy and Environmental Design (**LEED**)
- **Other Activities:** Personal trainer, Professional Player (Soccer, Tennis, and Basketball)

REFERENCES

Dr. Amr Oloufa	Dr. Naveen Eluru	Dr. Mark Calabrese	Dr. Paul Goldwater
Professor	Associate Professor	Associate Instructure	Associate Professor
<i>Civil Engineering</i>	<i>Civil Engineering</i>	<i>Industrial Engineering</i>	<i>Business School</i>
University of Central Florida	University of Central Florida	University of Central Florida	University of Central Florida
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