

Shirin Kianidovom

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EDUCATION

- University of California, Irvine – M.S., Structural Engineering June 2022
- Cumulative GPA: 3.36
- Azad University of Mashhad, Iran – B.S., Architectural Engineering August 2016
- Cumulative GPA: 3.60

WORK EXPERIENCES

- A&E Project Lead at Leaf Communications, San Clemente, CA May 2018 – Jan 2021
- Assisted project manager with evaluating incoming projects and submissions
 - Assisted structural engineer in preparing Structural Analysis
 - Prepared structural reports for engineers to review
 - Designed structural elements for cellular towers and rooftop mounts
 - Worked with both the architectural and engineering team
 - Provided quality check and redline on in-house projects
 - Designed traffic control plans (TCP) for road closures and small cell projects
 - Designed site plans and structural elements using AutoCAD
 - Attended site walks and prepared progress reports
 - Trained new team members for both architectural and engineering teams
- Architectural Intern at Domus Plans, Dana Point, CA Feb. 2017 – Dec. 2017
- Designed residential floor plans using AutoCAD
 - Designed and modeled renovation projects using AutoCAD and 3DMax
 - Assisted architect with site visits and measurements
 - Presented 3D designs and models to clients
- AutoCAD Drafter at Aria Hak Design, Mashhad, Iran Oct. 2014 – Oct. 2016
- Designed residential and commercial plans using AutoCAD
 - Assisted project engineer and designed structural elements using AutoCAD
 - Designed industrial elements using SOLID works (2D and 3D)

SHADOW EXPERIENCES

- Mark Thomas, Irvine, CA August 2021
- Transportation Engineering
- WSP, Orange, CA August 2021
- Structure, Roadway, Geotech, Construction
- Diaz Yourman and Associates October 2021
- Geotechnical and Structural engineering

SKILLS & CERTIFICATES

E.I.T candidate (Jan. 2022), AutoCAD, RISA, SAP2000, 3DMax, SOLID works, Python, MATLAB, Microsoft Office, Excellence in Engineering Communications (UCI certificate)

COURSEWORK

Steel Design, Concrete Design, Finite Element Methods (FEM), Advanced Reinforced Concrete Design, High Performance Materials, Micromechanics, Structural Elements and Detailing, Surveying, Principals of Management, National Building Codes, Technical Design of Buildings, Structural Analysis, Statics I&II, Construction Cost Estimating and Cost Control, Architectural Design I, II, & III

EXTRACURRICULAR ACTIVITIES

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| American Society of Civil Engineers (ASCE) S.M. | March 2020 - Present |
| Structural Engineering Institute (SEI) S.M. | March 2020 - Present |
| American Concrete Institute S.M. | March 2020 - Present |
| American Institute of Steel Construction S.M. | March 2020 - Present |
| American Society of Civil Engineers – UCI Student Chapter | Nov. 2020 – Present |
| American Concrete Institute | July 2021 – Present |
| Volunteered and helped raise \$15,000 for children cancer | June 2018 |
| Volunteered and helped raise \$12,000 for CURE SMA | June 2019 |
| Volunteered at Imam Reza Children’s Hospital – Design Captain | July 2015 |

SCHOLARSHIPS & AWARDS

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| Geotechnical Engineering Institute (GI) – History & Heritage Night Scholarship | Nov. 2021 |
| ASCE Achievement Scholarship – History & Heritage Night Scholarship | Nov. 2021 |
| ASCE OC Pathways Academy Scholar - Class of 2021 Student Scholars | July 2021 |
| Asia Pacific Workshop (APW 2021) Admission & Award | Jan. 2021 |
| Structural Engineering Institute (SEI) – History and Heritage Night Scholarship | Nov. 2020 |
| Tuition reduction and award – Top Students – Azad University (IAUM) | Oct. 2014 |
| Pasta bridge competition – Second Place | Dec. 2013 |

RESEARCH EXPERIENCE

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| Utilizing graphene aerogel as an alternative to steel in construction | Present |
| Structural strengthening using Fiber-Reinforced Polymer composites (FRP) | Nov. 2015 |

ACCOMPLISHMENTS

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| Employee of the year at Leaf Communications – MVP award winner | Dec. 2019 |
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