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North Carolina State University (NC State)		2022
	ction, and, Environmental Engineering	
University of Tehran	2017	
• B.S. Civil and Enviro	onmental Engineering	
Research Experien	ace	
Graduate Research A	ssistant (NC State)	2017-2018
	dge applications with Unity3D enabled by Hololens and	Fove for investigation
	n neurological signals and visual hazards	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	plication along with vision based IOT device for city of	Raleigh's storm water
monitoring	£	:-C4:
• Developed a VR tool	for cost estimation purposes for improving customer sat	istaction rate
Industry Experien	ce	
Programmer and VR	developer Tecnosa Research Office, Tehran, Iran	2016 - 2017
Developed commerciand crane technician	al VR models for residential buildings and VR tools for straining	heavy crane simulation
• Developed a BIM ba	sed bridge management system for enhanced maintenanc	e scheduling using
	I metaheuristic Algorithms	
Intern and Programm • Developed Sketchup	ner Imen Sazeh Fadak, Tehran, Iran and VR models for residential buildings	2016 – 2017
Programmer	Aghigh, Tehran, Iran	2015 – 2016
 Developed AR application 	eation for advertisement purposes	
Teaching Experien	nce	
Graduate Teaching A	2017-2018	
	ering Surveying and Geomatics	_01/ _010
Undergraduate Teach	2016-2017	
O	on to Computing-Visual Basic Programming	
Skills		
Programming	Python, C#, C++, VB, FORTRAN, JAVA, Navis	works API
Software	Microsoft Visual Studio, Microsoft Project, Microsoft Office, AutoCad, Unity3D, Stingray, Sketchup, Etabs, Safe, Revit, Navisworks	
Awards		
Graduate Merit Award (GMA) Fellowship		2017

Publications

Vahid Balali, Mojtaba Noghabaei, Arsalan Heydarian, and Kevin Han; Improved Stakeholder Communication and Visualizations: Real-time Interaction and Cost Estimation within Immersive Virtual Environments. *Construction Research Congress* 2018

Navid Kayhani, Hosein Taghaddos, Mojtaba Noghabaei, and Ulrich (Rick) Hermann; Utilization of Virtual Reality Visualizations on Heavy Mobile Crane Planning for Modular Construction. 35Th International Symposium on Automation and Robotics in Construction (ISARC 2018)

Projects

- Cloud-based Immersive Remote Inspection System using UAV
- Developing an outdoor robotic system containing a ground robot and a custom-built blimp capable of autonomous navigation using visual sensors
- Development of a Bridge Maintenance System Using Bridge Information Modeling
- Pipe Overflow Prediction Model in Stormwater Networks and Visualization Using Mixed Reality
- Predicting the determinants of project failure in Pre-construction phase using statistical modeling of data
- Real-Time Cost Estimation in Virtual Reality
- Real-Time Image Localization and Registration with BIM using Perspective Alignment for Indoor Monitoring of Construction
- VR Crane Operator Training
- Waste elimination in construction purchasing process using Value Stream Mapping