**Mojtaba Noghabaei**

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**Education**

**North Carolina State University (NC State)** **2022**

* **Ph.D.** Civil, Construction, and, Environmental Engineering

**University of Tehran**  **2017**

* **B.S.** Civil and Environmental Engineering

**Research Experience**

**Graduate Research Assistant (NC State)** **2017-2018**

* Developing cutting edge applications with Unity3D enabled by Hololens and Fove for investigation of correlation between neurological signals and visual hazards
* Building Hololens application along with vision based IOT device for city of Raleigh’s storm water monitoring
* Developed a VR tool for cost estimation purposes for improving customer satisfaction rate

**Industry Experience**

**Programmer and VR developer** Tecnosa Research Office, Tehran, Iran **2016 – 2017**

* Developed commercial VR models for residential buildings and VR tools for heavy crane simulation and crane technician’s training
* Developed a BIM based bridge management system for enhanced maintenance scheduling using **Navisworks API** and metaheuristic Algorithms

**Intern and Programmer** Imen Sazeh Fadak, Tehran, Iran **2016 – 2017**

* Developed Sketchup and VR models for residential buildings

**Programmer** Aghigh, Tehran, Iran **2015 – 2016**

* Developed AR application for advertisement purposes

**Teaching Experience**

**Graduate Teaching Assistant**  **2017-2018**

* CE 301 Civil Engineering Surveying and Geomatics

**Undergraduate Teaching Assistant**  **2016-2017**

* Programming (Visual Basic)

**Skills**

**Programming** Python, C#, C++, VB, FORTRAN, JAVA, Navisworks 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, Kevin Han Improved Stakeholder Communication and Visualizations: Real-time Interaction and Cost Estimation within Immersive Virtual Environments. *Construction Research Congress 2018*