**Jun Zhang (Green Card EAD, Passed PE Exam)**

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**Education**

MS, Civil Engineering, University of Houston, Houston, TX Aug 2014 - May 2016

BS, Civil Engineering, Hefei University of Technology, Hefei, China Sep 2007 - Jul 2011

**Work Experience**

**Insite Engineering, LLC**, Wall, NJ

Design Engineer Apr 2021 - Present

* Perform zoning analysis and civil engineering design of site development projects including residential buildings, commercial buildings, and warehouses
* Perform structural design and analysis of retaining walls, timber piles, and foundation systems
* Prepare site layout plan, grading and drainage plan, utility plan, soil erosion and sediment control, construction details
* Prepare technical reports including stormwater management report, water and sanitary report, and environmental report
* Prepare GIS maps for spatial data analysis
* Perform hydrologic and hydraulic (H&H) analyses, sizing of drainage/stormwater management control systems (implementing BMP's and Green Infrastructure measures)
* Provide engineering review of geotechnical report, topographic survey, construction submittals, RFI’s
* Support attorneys and project owners through municipal, county, and state permitting processes
* Use VBA Macros to develop custom user-generated functions to create automated process and speed up manual tasks in AutoCAD
* Use Dynamo and Python to build custom workflows for faster data calculation and object modeling in Civil 3D
* Created plugin for AutoCAD with AutoLISP

**Kuo & Associates, Inc**, Houston, Texas

Civil Engineer Mar 2017 - May 2020

* Performed civil design of projects such as public roads, schools, parks, underground utilities, and detention basins
* Performed traffic impact analysis, transportation design, pavement design, traffic signing and stripping design
* Performed field work and inspections to collect traffic data or review, investigate, and document existing infrastructure conditions, or provide construction support services
* Performed material takeoffs from drawings, specifications, and other contract documents
* Prepared plans and profiles, SWPPP plans, traffic control plans and other drawings in Civil 3D
* Prepared technical specifications, preliminary cost estimates, drainage report and due diligent report

**Lone Star Blowers**, Houston, Texas

Project Engineer Nov 2016 - Mar 2017

* Prepared general assembly drawings for blowers in AutoCAD
* Built 3D models of mechanical parts of blowers in Solidworks
* Managed projects in preparing technical submittals, procuring materials, and issuing factory Bill of Materials

**Rigid Global Buildings**, Houston, Texas

Engineering Intern Jul 2016 - Oct 2016

* Conducted structural design and analysis on metal buildings based on codes such as IBC, AISC, AISI, ASCE-7
* Optimized design to save construction materials by using MBS software
* Prepared cost estimating reports and engineering documents

**Fujian Ningde Nuclear Power Co., Ltd**, Ningde, China

Civil Project Coordinator Feb 2012 - Jul 2014

* Provided field support and supervised subcontractor operations
* Monitored the contractors work activities for conformance with contract documents, safety management and engineering standards
* Planned and organized practical completion inspections for roads, tunnels, and buildings including data center
* Prepared, distributed, and tracked project documents such as RFI’s, change orders, meeting minutes
* Participated in jobsite safety reviews, toolbox meetings, mass safety meetings, and safety training

Cost Control Engineer Jul 2011 - Feb 2012

* Monitored project total expenditure including verifying and checking of invoices and claims from suppliers, vendors and subcontractors to ensure that all project expenditures are captured and properly recorded
* Coordinated with internal departments to prepare annual budget

**Research Experience**

**University of Houston**, Houston, Texas

Research Assistant Jan 2015 - Sep 2016

* Project I: Transportation and Economic Impact of Texas Shortline Railroads (TxDOT Fund)
  + Performed research of economic impact of South Orient Railroad by using IMPLAN
  + Evaluated traffic delay and transport emissions by MATLAB and VISSIM simulation
  + Optimized the network infrastructure maintenance scheduling by Genetic Algorithm
* Project II: Shear Behavior of Steel-plate Ultra High Performance Concrete Wall Structures (DOE Fund)
  + Completed the design and fabrication of the complicated Steel-plate concrete test panel
  + Conducted mechanics analysis of the test panel under pure shear forces via ABAQUS simulation to evaluate the risk of potential failure

**Certificate and Skills**

* Certificate of E.I.T, Passed PE Exam (Preparing PE Registration Documents Now)
* Certificate of GIS (One Year of College Study of ArcGIS)
* Software: Microsoft Office, AutoCAD, Civil 3D, Revit, Navisworks, Enercalc, SAP2000, MBS, ABAQUS, MathCAD, AutoTurn, HydroCAD, SSA, ArcGIS, Enercalc
* Coding: VBA, Dynamo, Python, Matlab