Arun Kishore, E.I.T

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PROFESSIONAL EXPERIENCE:

Associated Engineering   **Structural Engineer-in-Training**   **Vancouver, BC**   **Aug '19 – Present**
- Led multi-discipline coordination to complete the design and construction admin activities for a light frame timber administration office and a concrete wastewater treatment plant in *Powell River, BC.*
- Lead designer for the water control structure across the Serpentine river for the *City of Surrey* incorporating tight interdisciplinary coordination and advanced response spectrum seismic design.
- Performed structural inspections, designed, and supervised rehabilitation of over 70 houses affected by flood in *Northwestern Territories* in under 4 months. The scope of work included designs for remediation/lifting/replacement of existing houses.
- Performed independent concept review on structural design for the expansion of *OFC building* subject to blast loadings.
- Designed reinforced concrete foundations for 3 industrial steel structures to support heavy mining trucks while maintaining superior durability against water retainment at *Grassy Mountain Mine.*
- Conducted dynamic analysis for steel staircase in *The Broxbourne School, UK* to isolate and remediate vibrational mode shapes.
- Headed the initiative on standardizing and automating calculation packages and workflow across the department.
- Saved 100s of hours of manual labor by automating the workflow on *LNGC Kitimat* project, with the final product capable of building structural model and analyzing the results, from a 3rd party PDF of column loads.
- Designed an automated workflow to read, check and summarize 100s of concrete test result PDFs into a 2 page document.

Uzun+Case, LLC.   **Structural Engineer-II**   **Georgia, USA**   **May '16 – Jan '19**
- Coordinated with Architect, MEP, and Contractor to support, design and deliver the multi-million-dollar *Georgia Aquarium Predator Exhibit* on schedule.
- Created automated workflow process to drastically cut down the time required to design/schedule concrete girders and slabs.
- Designed an efficient floor system to accommodate the usage requirements at *FourWinds Casino, IN.*
- Utilized RAM Concepts to design two-way PT slab system for a multistory residential unit for gravity and lateral loads.
- Used FEM analysis to design structural elements for water pressure and impact loads from animals at *Penguin Exhibit, GA.*

Enercon Services, Inc.   **Civil/Structural Engineer**   **Georgia, USA**   **Feb '16 –Apr '16**
- Performed static equivalent and dynamic analysis of structures for seismic and missile loads.
- Prepared design modification packages and executed detailed review of calculations.
- Checked engineering drawings for compliance with design and constructability.

Palmer Engineering Company   **Part-Time Structural Engineer**   **Georgia, USA**   **May '15 – Dec '15**
- Designed the dome of BAPS temple, Atlanta to accommodate the stringent engineering constraints of the project.
- Instrumental in the design of foundations and framing systems for multiple commercial and residential projects.
- Streamlined the design process for industrial storage rack units under gravity and seismic loadings.

EDUCATION:

Georgia Institute of Technology   **Master of Science in Civil Engineering**   **GPA: 3.64/4.00**   **Aug '14 – Dec '15**
- **Prestressed Concrete Design**
  - Headed the design of all structural elements for *Clough Undergraduate Learning Center, Georgia Tech* and prepared a complete structural package (incl. general notes, structural drawings & calculations worksheet) for the client.
- **Multi-Hazard Analysis and Design**
  - Designed steel and concrete buildings subject to gravity, earthquake, blast, wind, and fire loadings per IBC & ASCE 7-10.

National Institute of Technology   **Bachelor of Technology in Civil Engineering**   **GPA: 8.26/10.00**   **July '10 – Aug '14**
- **Study on Performance of Silica Fume Incorporated Cement Paste and Mortars**   Advisor: Dr. J. Karthikeyan
  - Optimized the silica fume content for cement paste and mortars to maximize 28-day compressive strength.

JOURNALS AND CONFERENCE PAPERS PUBLISHED:
- *"Development of sugarcane bagasse ash based Portland pozzolana cement and evaluation of compatibility with superplasticizers"*, International Journal for Construction & Building Materials, Volume 68, 2014.
- *"Effects of Corrosion Inhibitors on the critical chloride threshold of thermo-mechanically treated (TMT) Steel",* SCMT3, Japan, Aug, '13.

LEADERSHIP:
- *Head,* Structural Programming Task, Associated Engineering, responsible for developing and coding supplemental design-aids for SAP2000 and other standalone design suites.
- *Backend Lead,* BIL, Associated Engineering tasked with creating and maintaining the backend database for *Building Information Label* a comprehensive, industry wide initiative to quantify energy and water usage towards *NetZero.*
- *Organizer,* Book club, Associated Engineering, responsible for organizing and leading discussions on the book of the month.
- *Member,* BIM Committee, Uzun+Case, tasked with creating *Dynamo* Scripts for efficient deployment of contract documents.
- *Graduate Senator*, Student Government Association, Georgia Institute of Technology.

SKILLS:
- SOFTWARE*:* SAP2000; SAFE; ETABS; RFEM; Revit; AutoCAD; RAM Concepts; RAM Elements; ADAPT; RISA-3D;
- LAB/TESTING: Experienced in durability and forensic testing of concrete, incl., RCPT, LPT and Permeability Tests.
- PROGRAMMING: Python; Javascript; Excel VBA; Google App Script; Windows Batch Script.