Moosa Saboor

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Education

University of Toronto **September 2023 - April 2027**

BAsc Civil Engineering - cGPA: 3.45/4.0

- NSERC Research scholarship recipient | Value: $7500
- Entrance Scholarship | Value: $5000

Skills

Structural Analysis: Proficient in SAP2000, STAAD.Pro, Abacus FEA

Design: Proficient in using Rhino3D, AutoCAD, MicroStation, Revit, Fusion 360, SolidWorks

Programming: Highly proficient in Python, Java and C++, proficient in Fortran and MatLab

Interpersonal: Experienced in team management, communication, attention to detail, disciplined and self-motivated in independent work, ambitious in research

Work Experience

CivMin Department - SuStrucSy Research group **May 2025 - September 2025**

Research Student Internship

- Worked with PhD students to design, modify and assemble timber wall segments, and then aided in executing tensile testing on specimen in the Structural Testing facility (STF)

  Following points discuss my development on Compas_fea2, more information is available on my website
- Developed and implemented 3 functions to model zero-length-members, 4 functions to model orthotropic materials, and several functions to handle finite element analysis into compas_fea2's opensees backend using Python and TCL
- Developed 8 sample scripts utilizing compas_fea2 to model structural analysis on a variety of truss and frame types to demonstrate workflow to future developers
- Created 39 page research paper documenting coding process and summarizing application

Abu Huraira Centre **April 2024 - September 2024**

Administrative Coordinator

- Coordinated schedules, meetings and events using Microsoft Excel
- Organized and managed a team of 30 to handle maintenance and daily operation of the facility, basing tasks on individual skills and abilities of members to improve operational efficiency
- Participated in organizing and running a celebrity visit, drawing in over 2000 visitors, saving the Centre significant time by efficiently pre-planning movement routes and controlling visitor entrances

Projects

Steel Design Project

- Designed a 2 storey steel warehouse structure according to CSA-16:24 steel code specifications
- Performed manual structural analysis for dead, live, wind and snow loading conditions and combinations for all beam, columns and girders
- Recreated chosen design within SAP2000 to run structural analysis and confirm results

Concrete Bridge Design Project

- Analyzed a gap requiring the construction of a bridge; assessed viability of different cross sectional designs to accomplish design requirements, settling on a Double-T design for a reinforced concrete bridge.
- Performed manual structural analysis to determine maximum tensile forces which needed to be accounted for, then designed and dimensioned appropriate steel reinforcement
- Finalized initial design draft using AutoCAD to draw and dimension the plan, elevation, cross section views and steel reinforcement placements

Affordable Autoinjector

- Researched autoinjectors, identifying bottlenecks drawing up costs and reducing availability
- Designed a 3D printable autoinjector using Fusion 360 in order to assemble and thoroughly test prototype models, successfully identifying issues with the design
- Improved design based on findings based on prototype, which was tested on false-skin patches, using Fusion 360