

Sheen Patel

Civil engineering student at the University of Toronto with an interest in large-scale built infrastructure

Contact

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Education

BASC CIVIL ENGINEERING, UNIVERSITY OF TORONTO SEPT. 2021 - MAY 2026 (EST)
Recipient of UMA Scholarship in Civil Engineering

Skills

- Microsoft Office (Word, Excel, PowerPoint, Project)
- AutoCAD
- Solidworks
- SAP2000
- qGIS
- C, Python
- Driver's License

Experience

SUMMER RESEARCH | DEPT. OF CIVIL AND MINERAL ENGINEERING MAY 2023 – AUG 2023

- Interfaced between Professor Emeritus Doug Hooton and EXACT Technologies to create and test prototypes for remotely monitored embedded concrete monitoring system, running 28-day monitoring tests
- Used and maintained civil and concrete casting and testing equipment
- Presented results at annual summer research conference to industry professionals; worked with CivMin department to create summer research marketing video

STORE OPERATIONS MANAGER (UNPAID) | PHYSICAL SECURITY EDUCATION JULY 2022 - PRESENT

- Managed vendor booth operations at 30,000 attendee conference netting \$10,000 revenue per day
- Train and lead volunteers in running of store manufacturing and operations
- Oversees manufacturing of store stock and manages volunteer compensation

Relevant Coursework

- Civil Engineering Graphics
 - Drawing and CAD
- Transport I/II
 - Transportation modelling
- Survey Camp
 - Used Total Station
 - Basic surveying and map-making
- Geotech 1 & 2 (current)
- Steel and Timber Design
- Reinforced Concrete 1 (current)

Extracurriculars

CO-CAPTAIN | UoFT CONCRETE TOBOGGAN DESIGN TEAM APRIL 2023 – PRESENT

- Use Microsoft Project and Gantt charts to schedule and baseline 40+ person team
- Manage \$80,000+ annual budget; interface with sponsors to build industry connections
- Review construction drawings to ensure safe and achievable manufacturing
- Oversee safety and file appropriate safety reports for construction and competition
- As concrete co-lead, developed and tested environmentally focused UHPFRC concrete mix

EVENT EXECUTIVE | SKULE150 COMMITTEE SEPT. 2022 – MAY 2023

- Pioneered campus-wide, \$15,000+ budget, open-to-public showcase event for sesquicentennial anniversary celebration.
- Networked with student clubs, external vendors, and faculty for a variety of activations including clubs fair
- Hired a hierarchy of volunteers to support planning and event coordination