

# Paul Rudd

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## Highlights of Qualification

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- Enrolled in level 4 of the 4-year Civil Engineering co-op program at McMaster University
- Developed strong interpersonal skills while taking on a leadership role for various academic projects and extra-curricular competitions, including the Troitsky Bridge Competition
- Capable of reading and assessing engineering drawings obtained through the Engineering Project Management course
- Possesses excellent written and verbal communication skills that translate to team successes, such as working with multiple Rogers Communications departments to complete 30 flawless site audits

## Education

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### Bachelor of Engineering, Civil Engineering

Sept 2020 - Present

McMaster University, Hamilton ON

- Achieved a cumulative grade-point average of 3.6 on a 4.0 scale
- Awarded the McMaster Entrance Scholarship (\$1K) for maintaining a 85%+ average in high school

## Experience

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### Civil Engineering Specialist

May – Aug 2020

Rogers Communications, Brampton ON

- Created 50+ work orders for base station facilities, enclosures, power systems, environmental systems, antenna support systems and towers for the capital build program
- Reviewed and approved 30 site audits and structural engineering drawings based on Rogers planning, Radio Engineering, Microwave and Equipment Engineering requirements
- Ensured base station infrastructure safety and compliance by creating and implementing a system for effectively tracking all applicable codes and standards

### Engineering Design Student

May – Aug 2021

City of Hamilton, Public Works

- Assisted graduate students in obtaining experimental data related to the flow inside of a scaled down CANDU calandria using a class IV PIV laser system
- Created and documented a comprehensive LabVIEW script for the calandria test section
- Established communication between different devices within the test section to obtain relevant data

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## Projects

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### Bid Proposal Project

Fall 2020

- Collaborated with a team of 6 people to generate a bid proposal and work schedule for the construction of an enclosed parking structure
- Assessed engineering drawings of the parking structure with strong attention to detail to determine material takeoffs
- Accurately estimated the cost of materials, labour and services us RS Means Building Construction Cost date to adhere to a strict (\$) budget and 8 week milestone timeline by producing a work breakdown structure and formulating a project schedule using Microsoft Project

### Concrete Mix – Design Project

Fall 2021

- Designed, casted, and cured concrete based on the CSA standards and specifications
- Conducted flexure, split cylinder, and compression tests to compare theoretical and experimental values
- Consolidated and formatted a 90-page report summarizing the procedures and findings of the project demonstrating leadership, time management and attention to detail

## Extracurricular Activities

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### Student Representative | McMaster Civil Engineering Society

Fall 2020 - Present

- Promoted various social events geared towards creating connections between civil engineering students and faculty

### Student Participant | Troitsky Bridge Competition McMaster University

2020 - Present

- Designed and built a bridge that was able to hold 900kg from popsicle sticks, white glue and dental floss, placing the team in 5<sup>th</sup> place in the 2021 competition

### Shooting Guard | McMaster Marauders Men's Basketball Team

2020 - Present

- Awarded McMaster Athlete of the Week January 29, 2018
- Achieved the second-highest point total in the 2020-21 season

## Skills

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| • Spreadsheet & Data Analysis in Microsoft Excel     | • CAD Design using MicroStation & Autodesk Civil 3D | • Modelling & Simulation in EPANET2                                 |
| • Project Planning & Scheduling in Microsoft Project | • Structural Design using SAP2000                   | • Technical writing & Oral Presentation from case studies & reports |
|  | • Total Station Surveying                           | • WHIMIS Trained  |