

# DILDEEP SARAI

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## EDUCATION

Bachelor of Mechanical Engineering  
Ryerson University

May 2018  
Toronto, ON

## ACADEMIC PROJECTS

- Conducted FMEA and Stress Analysis to implement magnesium in structural components of automobiles and yielded a 12 percent reduction in overall vehicle weight for increased fuel economy
- Creation of a 3 reservoir junction water pump system with related calculations to supply a municipality with water in case of a power outage or catastrophe using EPANET and Microsoft Excel
- Design of an ergonomic automotive window regulator mechanism, with efficient gear train system, converting rotational motion to harmonic reciprocating linear motion using SolidWorks and MATLAB

## WORK EXPERIENCE

### COMTOW | Fleet Maintenance

May 2016-Present

- Coordinated preventative maintenance through repair of mechanical systems regularly; decreasing equipment downtime and cost of repair
- Employed Six Sigma concepts to operator equipment and procedures to decrease overall project time by 14 percent

### S.D. Transport & Recovery | Logistics Coordinator

July 2014-January 2016

- Gained efficient planning skills and ability to work under pressure by advising clients of improved methods of transport, without compromising time or service
- Initiated the first safety and compliance system reducing worker injury in vehicles and on job sites through danger awareness and safety reports

### Action Auto & Collision Center | Auto Body Technician

July 2012-May 2014

- Collision repair, including body fill & refinishing, sanding, primer & paint preparation
- Acquired the ability to pay meticulous attention to detail and knowledge of behavior between various chemicals, gases and solvents aiding in automotive repair

## EXTRA-CURRICULAR ACTIVITIES

### Ryerson PA | President

September 2015-May 2018

- Create, manage and coordinate social events for students under the Ryerson Students' Union to promote culture
- Mentoring students experiencing difficulty in the transition to post-secondary education by networking

### 5AAB TV | Live Broadcasting

June 2015-Present

- Performed camerawork for live cultural events structured around the Greater Toronto Area in effort to contribute to the longevity of ethos in Canada
- Demonstrated exceptional communication skills with team members and members of the community by managing live interviews

## TECHNICAL SKILLS

- |                                 |                     |                      |
|---------------------------------|---------------------|----------------------|
| • SolidWorks CSME Certification | • EPANET            | • Project Management |
| • AutoCAD                       | • G Code            | • Microsoft Excel    |
| • MATLAB                        | • Rapid Prototyping | • C Programming      |
| • Simulink                      | • CNC Machining     | • Java               |