

## SUMMARY

- Detail oriented Graduate engineer with expertise in Design, Development and Analysis.
- Proficient in AutoCAD, Solidworks (Modelling, Sheet Metal, Simulation), ANSYS Fluent, ABAQUS and GD&T
- Perform Linear, Non-Linear, Composite and Buckling analysis of beams and mechanical components

## EDUCATION

- **Master of Engineering, University of Western Ontario, London, ON**  
Mechanical and Materials Engineering, Aug 2018
- **Bachelor of Technology, SRM University, Chennai, India**  
Mechanical Engineering, May 2017

## ACADEMIC PROJECTS

- **Fabrication of Hydraulic Hybrid Power Train**
  - Simulate circuit with components that include accumulator, Motor, wheel, reservoir, DCV, connecting hose and push button switch using Fluid-SIM hydraulics.
  - Create layout for Acceleration, Braking and re- acceleration mode for various positions for DCV.
  - Design Oil Gas accumulator to improve regenerative braking mode.
- **Fabrication of Golf Kart Vehicle**
  - Design of front axle and sprocket with higher number of teeth to improve efficiency and torque of the vehicle.
  - Design chassis of vehicle using aluminum alloy and pipe diameter of 2 inches to reduce pay load.
  - Negotiated with vendors to raise funds for 12V batteries to power the vehicle.
- **Dissection and Analysis of Bike bell**
  - Perform Life Cycle Analysis of the bike bell and asses the environmental impact that the materials would have using CES Edupack and Solidworks Sustainability.
  - Prioritize customer needs, requirements and plot Quality Function Deployment using Excel.
  - Complete FMEA and suggest appropriate alternatives.
- **Experimental Modal Analysis on Car Door**
  - 3D print car door using SLA and perform static and modal analysis using Solidworks.
  - Obtain FRF from shaker and hammer test and verify results with simulation output.
  - Simulate the model with the FRF's using ME'Scope.

## INTERNSHIP EXPERIENCE

- **Engineering Intern**  
Leo Machines and Manufacturing
  - Digitalize CAD drawings of dip sticks and dip stick gauge for LMV's.
  - Optimize design of dip stick to reduce material usage and overall weight.
  - Perform static and thermal analysis on dip stick using Solidworks
  - Perform Injection molding process on dip stick holder using Polypropylene.

## CERTIFICATION

- **Certified Solidworks Associate – Simulation**  
Licence: C-YC9VTTYTAC

## AWARDS AND ACHIEVEMENTS

- Best business plan for Golf Kart Vehicle, Golf Kart Championship
- Student Ambassador, SAE Student Chapter – SRM University
- University campus requirement coordinator – SRM University