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# MAYANK PANT | MECHANICAL ENGINEER

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## OBJECTIVE

Mechanical engineer with a breadth of knowledge and experience in the fields of fluid analysis, mechanical design, design of experiments and data analysis. Seeking internship and Co-Op opportunities and willing to relocate.

## COMPUTER SKILLS

- Hyperworks
- Ansys (fluent)
- Solidworks
- MATLAB
- Adobe Photoshop
- Python, C++
- AutoCAD
- MS-excel, MS-word, MS-Project, MS-Powerpoint

## EDUCATION AND TRAINING

### MASTER OF SCIENCE, MECHANICAL ENGINEERING

University of Colorado, Boulder, CO

GRADUATION YEAR: 2021

### BACHELOR OF TECHNOLOGY, MECHANICAL ENGINEERING

Guru Gobind Singh Indraprastha University, New Delhi, India

GRADUATION YEAR: 2018

Percentage-74%

## WORK EXPERIENCE

### TEACHER'S ASSISTANT- UNIVERSITY OF COLORADO, BOULDER

(JAN 2020-PRESENT)

- Manufacturing Processes and Analysis
- Statics and Structures

### RESEARCH ASSOCIATE- CHAKR INNOVATION PVT. LTD., NEW DELHI

(OCT 2018-APR 2019)

- Designed a combustion chamber with turbocharger integrated at the exhaust
- Conducted FEA Analysis to analyze the exhaust properties of its combustion chamber
- Redesigned the mechanical structure of a carbon fume capture mechanism

### INTERN— Maruti Suzuki India Limited, New Delhi

(JUNE 2016-AUGUST 2016)

Performed root-cause-analysis and improved the quality of automotive components meant for export

### INTERN — NATIONAL PHYSICAL LABORATORY, NEW DELHI

(JUNE 2015- AUGUST 2015)

- Calculated rheological properties of magnetic ferrofluids, its application, and provided the optimum ferrofluid to counter friction losses

## PROJECTS AND PUBLICATION

### CAPTAIN AND DESIGN LEAD OF THE VARSITY BAJA MOTORSPORTING TEAM, NEW DELHI

(2015-2018)

- Led the project to design and perform structural analysis and optimization of the chassis
- Applied topology optimization on suspension components to improve the performance of an all-terrain vehicle

PAPER PUBLISHED: PANT, M., GUPTA, M., KHANDLWAL, A., "DESIGN AND ANALYSIS OF A GEARBOX WITH INTEGRATED CV JOINTS OF AN ALL-TERRAIN VEHICLE", JOURNAL OF IAEME, PAGES 1458 TO 1465, (AUGUST 2017)

## AWARDS AND ACCOMPLISHMENTS

- Travel Grant to participate in competitions abroad, from Government of India (2018)
- Runners up in Academics in Senior Year, Undergrad (2018)