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**shaurya** panthrI

**Objective:** Pursuing research opportunities in the automotive engineering where I can use technical skills to gain professional development.

**EDUCATION**

**Graduate Student at CUICAR (Automotive Engineering)** August 2019- Present

Clemson University International Center of Automotive Research.

Student Graduate Hourly Position Research Assistant (Assisting a project at CU-ICAR). Expected Graduation: 2021

**Bachelor of Technology (Mechanical Engineering)**  August 2014- July 2018

Govind Ballabh Pant Engineering College. Secured 1st Division (Hons.)

**EXPERIENCE**

**Industrial trainee**

**Oil and Natural gas corp. Ltd., Dehradun, India** Spring 2016

* Project study and Design of the Rig Equipment, Types of Drilling methods and tools.
* Optimization and Dynamics of Drill Bit used.

**Volvo Eicher commercial vehicles, MP, India.**  Spring 2017

* Acquired Hands on skills on Analyzed Truck Assembly Process for LWD and HD Trucks.
* Worked with a team on planning and designing new line process for wheel alignment for heavy duty truck manufacturing and worked on the wheel alignment process for newly manufactures trucks.
* Worked on a live project execution of new HD line site clearance.

**INTERNHIP**

**QH Talbros Pvt. Ltd. Quality department, Dehradun, India** August 2018-February 2019

* Inspection of quality of steering and suspension segments of passenger cars, utility vehicles, tractors, light & heavy commercial vehicles for OEMs. Conducted tests and analysis using assorted torque measuring machines, UTM, gauges and profile projector.

**PROJECTS**

* **Project 1** Effect of Room Temperature Rolling Followed by Annealing on Tensile & Fracture Behavior of Bulk UFG Al-Li 8090 Alloy.

Research was highly appreciated and was published in “Springer US” on Ultra-Fine Grain Formation and enhanced mechanical property i.e., Increment in Strength and fracture toughness of the material.Successful study of the microstructure and Fractography of samples using SEM and TEM.

* **Project 2** Baja SAE 2015(Design and fabrication of the braking system)

I was accountable for material election, designing H Type Brake, durability and maintainability of the SAE BAJA ATV that provided other features for better off road performance, comfort and stability using computational design and analysis software. (ANSYS utilized for thermal analysis of disc rotor)

Light weight, minimal stopping distance for 250kg ATV. Calculation and Fabrication of brake pedal and laser cut custom designed brake discs.

**PROFICIENCIES**

▪ MATLAB and Simulink, Dynamics of Machines with MATLAB.

▪ Self Driving Car Course: Computer vision, Deep Learning, MNIST Image Recognition, CNN, Behavioral Cloning, ROS, rosserial.

▪ Proficient in C, C++ and Java programming.

▪ Working knowledge in PHP, HTML Microsoft Office and Adobe Illustrator and Photoshop.

▪ Experienced in Object Oriented Programming C, C++, Java, Python. (NumPy, OpenCV, PyTorch, Keras)

▪ AUTOCAD, CATIA, SOLID WORKS and ANSYS: Optimization and Simulation, Solid modelling, Features and Assembly, Material Properties, Meshing, Natural Frequencies, Finite Element Analysis, Mechanical Event Simulation and Computational Fluid dynamics.

• FMEA, FDI, state space model, controllability, observability, residual generation for vehicle subsystems and Battery Management System. (Vehicle Onboard Diagnostics)

▪ German Language Goethe Zertifikat Level A1.

**EXTRA ACTIVITIES**

• ‘AUTOKRITI 7’ An engine overhaul workshop conducted by SAE India and NIT Kurukshetra

• Energy conservation program by GBPEC in collaboration with UREDA (Uttarakhand Renewable Energy Development Agency)

▪ TEQIP-III Sponsored workshop on Materials Characterization by SEM, TEM, XRD and EBSD

**ACHIEVEMENTS**

• 3rd position in maneuverability and 5th in Brake Test events at Aravalli ATV Championship 2018.

• Co-Founder and Driver for ‘Team Savitar Racing’, SAE-GBPEC.

• Publicity Head at SAE GBPEC club generating funds from Sponsors. Promoting the club and recruiting new members to the team.

• Sponsorship and Publicity Head at Student Activity Cell. Managed and raised funds for techno-cultural fest, workshops and seminars.

▪ Volunteer for Disha social organization: Worked and taught adolescent girls in education center.

▪ Sports Captain (Member of school Council 2013-2014) at St. Joseph’s Academy Dehradun, India.

• Qualified GATE (Graduate Aptitude Test in Engineering) 2018 (Mechanical engineering)

• Runners Up (2017), Winner (2018), best player of the football tournament (2018) at annual sports meet. Captain of college soccer team.