PRATEEK SHARMA

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OBJECTIVE

- I am looking for an internship opportunity related to connected and autonomous vehicles and the integration of autonomy for Summer 2020.
- Self-motivated, hard-working graduate student in Automotive Engineering, majoring in Autonomous Vehicles and willing to learn new things to succeed in my assigned tasks.

TECHNICAL SKILLS

Programming languages	MATLAB & Simulink, Python, C++, Arduino IDE, ROS
Software	PreScan, Siemens NX, AutoCAD, Solidworks

EDUCATION

Aug'19-May'21 **MS in Automotive Engineering, *Clemson University, SC, USA* (GPA- 3.74/4.0)**
- Coursework: Automotive Stability and Safety Systems, Automotive Electronics Integration, High-Performance Computing for Vehicle Autonomy Modeling & Simulation, Motion planning, Autonomy: Science and Systems, Engine Combustion and Emissions

Aug'15-May'19 **B.Tech in Mechanical Engineering, SRM Institute of Science and Technology, *Delhi-NCR, India* (GPA- 7.32/10 || 81.22%)**
- Coursework: Mechanics of Solid, Machines and Mechanism, Fluid Mechanics, Applied Thermal Engineering, Computer-Aided Manufacturing

ACADEMIC PROJECTS AND ASSIGNMENTS

Completed **Design a double-wishbone suspension assembly**
- Design and 3D print parts for a double-wishbone suspension and assemble them to create a working model of a double-wishbone suspension assembly.

Autonomous RC car
- Using Kalman Filter to filter ultrasonic sensor, piece-wise fitting calibration function
- Lane-keeping and adaptive cruise control functions implemented

Lane identification algorithms for Autonomous Car
- Identify lane lines for a self-driving car using computer vision technique via OpenCV
- Trained a Convolutional neural network to identify various traffic signs

Ultrasound-based Localization System
- Ultrasonic Sensors used to obtain the coordinates of an object after filtering data

EXPERIENCE

Jan'19-Apr'19 **Project Intern, CNH Industrial, Noida plant, India**
- Worked in the manufacturing department and lead Kaizen preparations for Kaizen Convention 2019
- Involved in readiness of AK(Advance Kaizen), worked with BOSCH to collect project data

Dec'17-Jan'18 **Intern, Continental Pvt. Ltd., India**
- Got familiarized with latest industrial tools, machines, and methods used to produce tires

Jun'16-Jun'16 **Workshop, Automobile Development Internship, India**
- Assembled and disassembled 2-stroke and 4-stroke engines
- Learned about the latest technologies used to reduce emissions