ASHIT MOHANTY

Career Objective:

Looking for a challenging and rewarding position in a fast paced organization that offers me the opportunity to encapsulate my technical knowledge in the field of mechanical engineering and knowledge of software development languages to further bolster my interests and understanding in the field of autonomous vehicles and the broader field of automobiles. My experience of working under a leading IT firm helped me learn about coding languages and introduced me to the field of software programming, and working in the R&D department of the mechatronics division in a leading global automotive component manufacturer aided in amplifying my interest in mechatronics. Being an automotive and Formula One enthusiast, my experiences and skills have resulted in my inclination towards autonomous vehicles and would love to work for an organization that will help me fully utilize my knowledge, creative abilities and talent.

Currently pursuing my master's in automotive engineering as a full-time graduate student at the International Centre for Automotive Research at Clemson University.

Educational Qualification:

Clemson University- ICAR	Master's in automotive engineering (2019-2021)	CGPA 4.0/4.0

Subjects currently enrolled in

- Motion Planning
- Automotive Stability and Safety Systems
- Autonomy: Sciences and Systems
- Systems Integration Concepts and Methods

VIT (Vellore Institute of Technology) University	B.Tech in mechanical engineering 2016	CGPA 8.13/10.0
Birla Public School, Pilani	CBSE XII 2012	91%.
Gitanjali Senior School, Hyderabad	ICSE X 2010	90%

Experience

KSPG Automotive India Pvt Ltd (Sept '17- June' 19) – Senior Design Engineer

Design Engineer in the Department of Mechatronics, KSPG Automotive India Pvt Ltd (Automotive division of Rheinmetall Group)

Designing of EGRs, on CATIA V5 R22.

Was responsible for TATA projects for BS6 engines and DFMEA changes and preparation of drawing sheets of other existing projects as well. Part of the prototype building and testing team, responsible for prototypes of TATA projects.

Was the design lead for the Mahindra 3.5L ICV EGR Valve. Received special commendation from the CEO.

Cognizant (Sept '16- Aug'17)

Joined from Campus as a programmer analyst trainee

Received training in COBOL, DB2 and MAINFRAME JCL.

Was directly responsible for three policies- PAP, PEP and EPD (Coding).

Internships

Volkswagen India Pvt. Ltd. (Dec '14 – Jan '15)

Internship at Volkswagen India Pvt. Ltd. Chakan, **BODYSHOP** Department.

Project - Downtime analysis and elimination at workstations.

The two workstations I was dealing with were AFO-4230 and AFO-4320. Over the duration of the internship, I was responsible for finding the root cause and elimination of the subsequent downtime.

Hinduja Tech Ltd. (Mar '16- April '16)

Hinduja Tech Ltd. under the design department.
Project- The use of CVT in 2-wheeler engines and benchmarking the CVT used in Honda Activa.

Team BLITZ (Jan '13 – Dec '13)

Was one of the founding members of the VIT University's first Go-Karting team.
Represented the College at the National Go-Karting Championship'13 at Kolhapur.
Member of the brake's division.

University Projects:

- Construction of an Automatic Pesticide Sprayer.
- Design, fabrication and analysis of Shell and Tube Heat Exchanger.
- Design, Modal Analysis and Fabrication of Spur Gear train.
- Extraction and Analysis of Biodiesel from Sunflower Oil.
- Vibrational effects on the railway tracks.
- Topology Optimization of Brake Rotors manufactured using EN24 and comparing with standard stainless-steel brake discs. EN24 is costlier than standard stainless steel but offers higher strength. (Apache RTR 180 Rotors were used for testing and comparing with EN24 rotors).
- Adaptive cruise control and autonomous lane keeping using an autonomous Radio-controlled car
- Complete Design of a battery electric vehicle using the approach of Systems Integration – Powertrain, BIW, Vehicle Dynamics, Passenger packaging
- 3D localization using Automotive RADAR

Software skills:

Solid Works, CATIA V5, MATLAB, Siemens NX
ANSYS Workbench, ANSYS APDL, CNC Train
MS Office
C, C++, Java on Blue J Platform, SQL, DB2, Pascal, Python, PreScan

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