



Aayush Chugh
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Address
Sauletekis Al.25
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Lithuania

Aayush Chugh

Automotive Engineer

Objective Seeking to leverage academic and practical acumen gathered in clinching opportunities in reputed company for both personal and professional growth

Education

2019 - 2021, Vilniaus Gedimino technikos universitetas
Masters in Automotive Engineering

2014 - 2018, University of Petroleum and Energy Studies, Dehradun, India
Bachelor of Technology in Automotive Design Engineering

Projects:

- Design and Analysis of 2016 and 2017 F1 Front Wing
- Dirt analysis on the performance of an engine cooling system
- Design, Analysis and Fabrication of Hybrid Vehicle organized by ISIE
- Boundary layer separation by the application of synthetic jets
- Extreme engine downsizing by doubling the firing frequency in a boosted direct injection gasoline engine
- Performance and emission analysis of a diesel engine implementing polanga Bio diesel and optimization using Taguchi method

Experience

Feb 2019 - Aug 2019, US IT Recruiter, Head Field Solutions Pvt. Ltd

Responsibilities:

- Responsible for handling IT requirements from US based clients.
- Responsible for full-cycle recruiting: interview, offer, negotiation and closed candidates for assigned requisitions.
- Sourcing from Job Portals (Monster, Dice, Career builder, Yahoo Hot Jobs), Making job postings on the Job Portal.
- Well versed about US Terms like W2, C2C, 1099, US Visas, etc.
- Responsible to work on Contract, Permanent and C2H (Contract to Hire) positions.
- Responsible for achieving a good conversion ratio of submittals into interview and placement

Jun 2018 - Feb 2019, Product Design Engineer, Qaurus Pneumatics India Pvt. Ltd

Responsibilities:

- Design and modification of cabin interior paneling, storage compartment/toolbox and floor mat in compliance with the FMVSS for NOVG (New Overseas Vehicle Generation-EURO VI) Project and saved around €7000 in the proto parts development cost.
- Coordinated projects with overseas counterparts in MAN Truck and Bus, Germany and with SINOTRUK, China to get 5000+ translated CAD drawings from Mandarin to English and check-in delivery of their 3D models.
- Analyzed and updated the existing paint and coating process to standard process in alignment with the production and purchase department.
- Modified the design and FEA of blind spot mirror mounting provision for the new vehicle to be launched for deep mining applications.
- Tracked the proto-parts development for a new vehicle launched in 2018 with DFMEA, DVP, visiting suppliers with the product development team to expedite the process which resulted in the early start of the testing phase.
- Contributed to the implementation of new designs for CLA truck cabin by interacting with testing, production, supplier, quality and validation departments which lead to cost reduction.

Jun 2017 - Sep 2017, Engineer Trainee, Faurecia Automotive India Pvt. Ltd

Projects:

- Design of Double Wishbone Vehicle Suspension System Force Analyzer and Ride Height Calculator
- Design of a program to calculate Vehicle Suspension System Characteristics which helped to do cumbersome analysis and calculations of 20x20 matrix
- Design of Anti-Roll Bar Stiffness and Stresses Calculator
- Reduction of waste in Lean Manufacturing and Tact Time Calculation
- Product Quality Control Table creation using MS Excel and Zone Layout formation using Solid works



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Jun 2016 - Jul 2016, Vocational Trainee, Maxop Engineering India Pvt. Ltd

Subject: Identification and Visual aid for different gear parts of the transmission box:

- Approach to eradicate the problem using 8-D Quality Tools
- Modification of Assembly Line

Subject: Design of Automated Guided Vehicle

- Benchmarking of Google Toyota Prius
- U-V Joint Design

Subject: Designing of Die Casting Components

- CAD Model of Components of Die Casting using NX10
- Flow Simulation of Aluminium Die Casting using Magma.

Fellowships/Awards

2019, Postgraduate Scholarship, Vilniaus Gedimino technikos universitetas

Awarded 50 Percent Scholarship for masters in Automotive Engineering

2017, Best Design and lightest Vehicle Award, Hybrid Vehicle Challenge

Awarded Best Design and lightest Vehicle Award at Buddh International Circuit

2012, Maths Olympiad, Government of India

Merit Holder

Certifications

- Certified training on Advanced Structural Design, basics of Strength of Materials and its application into Finite Element Analysis of components, to analyze and study the structural behavior of new and existing designs and teaching of CATIA, ANSYS and Nastran-Patran by Aerospace
- Six Sigma and Lean Champion Certification Course by Indian Centre for Manufacturing Excellence

Publications

- Aayush Chugh; Rachit Ahuja. Design, CFD Analysis and Lap Time Simulation of FSAE Car. Researchfora 14th International Conference, Hamburg, Germany 22nd-23rd January 2018
- Aayush Chugh; Rachit Ahuja; Sukriti Ranjan. Shape Optimization of Automobile Chassis. International Journal of Engineering and Technical Research V6(02) DOI: 10.17577/IJERTV6IS020388
- Aayush Chugh; Rachit Ahuja. Modelling and Simulation of Jake Braking System. International Journal of Engineering and Technology for Research. Paper Id- IJRDT1001321
- Aayush Chugh; Archiel Aggarwal. Synchronous Power Supply. Imperial Society of Innovative Engineers. Hybrid Vehicle Challenge at Buddh International Circuit, February 2018

Softwares

Simulation

Simulink | • AMESim | • Stateflow | • Model-in-loop (MIL) | • Model based Design and Simulation | • Embedded Control System Design

Design

CATIA V5 | • Solidworks | • Ansys Workbench | • Nastran-Patran | • Hypermesh | • Siemens NX10

Numerical

Star CCM | • Converge | • Fluent

Programming

MATLAB | • VBA | • Python | • Arduino | • C

Applications

Microsoft Office

Languages

- Hindi- Mother Tongue
- Punjabi- Mother Tongue
- English- C1 Proficient User
- German- A2 Beginner's Level