ravishreyas.github.io/shreyas

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Education

Oxford Brookes University, Oxford, UK

M.Sc. Motorsport Engineering

Merit

September 2018 - September 2019

-Conducted research on Driverless vehicle analysis and compared control theories for Formula Student Autonomous Vehicle as master's dissertation.

SRM University, Chennai, India

B. Tech, Automobile Engineering

8.3 GPA

July 2014 - May 2018

Intake Manifold as B. tech project.



Skills

CAD: Catia V5, Solidworks **CFD:** Ansys fluent, star ccm+

Other: LS-dyna, Matlab/Simulink, Adams, EcoCal, EM-tune (engine calibration software), Avl vsm;

MoTec i2, Ni multisim

Additional Certifications

Model-based Automotive systems Engineering

Chalmers-edX

Projects

Adaptive quarter wavelength tube (AQWT)

-Conceptualised and designed an AQWT based on the inverse of RAM air Intake for OBR formula student team to reduce noise and improve performance at 25mps piston speed.

-Reduction of 3-4 dB in noise level was noticed upon testing.

Cooling system for EV

-Conceptualised, designed and conducted thermal analysis using solidworks for the cooling system of the new EV vehicle of OBR formula student.

Conversion of Otto cycle to Atkinson cycle

-Developed new Cam shaft design for the conversion of traditional Otto cycle to a more efficient Atkinson working cycle in a 110cc CVT operated engine.

Steam engine concept

-Led a team of 5 to develop a turbine concept and made a 1:28 working model of the same.

-The concept was awarded the first prize for innovative thinking and excellent understanding of the concept displayed.

Improvement of efficiency of a 4s-SI engine

-Proposed a roadmap for improving fuel efficiency and conducted a feasibility study in a team of 3.

For more information on projects and reports, kindly visit ravishreyas.github.io/shreyas

Experience

Shreyas Ravi

R & D Engineer

Pixy Electric Cars Pvt. Ltd, Pune, India

11/2020 - 12/2020

-Designed electric powertrain for customer commercial vehicle.

-Designed electric powertrain conversion kit for Gypsy and Swift.

Team Member (AI, EV & CV)

Oxford Brookes Racing, Oxford, UK

09/2018 - 09/2019

-Being a stand-in powertrain EV lead, managed a team of five to design, fabricate and document reports for competition.

-Designed, analyzed, and fabricated Variable Length -Conceptualized and carried out the calculations for the exhaust manifold to reduce noise and improve performance using AQWT.

> -Developed a lateral controller for autonomous car using simulink and fulfil hardware requirements for testing of software.

Team Leader

Infieon Supermileage, Chennai, India

02/2017 - 04/2018

-Managed a team of 26 People, the team won Its first award overseas for technical innovation at shell eco-marathon Asia '18.

-Introduced a variety of new sub teams to restructure the team, improving productivity with the limited resources available, resulting in the team attaining best Indian team status.

Team Driver and Powertrain Lead

Infieon Supermileage, Chennai, India

04/2015 - 02/2017

-As the combustion powertrain leader, developed a unique rear wheel hub specific for the vehicle and proposed an innovative clutch design to improve coasting distance and reduce rolling resistance.

-Collaborated with the electrical team to convert carbureted engine to fuel injected engine, while also developing ram intake and ceramic coating.

Assembly Line Trainee

Ford, Chennai, India

June 2016

-Devised test methods for LHD & RHD vehicles while improving the efficiency of international shipping bay.

-Submitted detailed reports with the problem statement and provided possible solutions.

SUMMER INTERN

TAFE, Chennai, India

June 2017

-Studied different gear production methodologies and understanding the gear architecture of TAFE gear cum steering casing.

-Suggesting international standards be implemented and ways to implement them with the help of report.

UNIVERSITY INTERN

Visteon Electronics, Chennai, India

12/2017-04/2018

-Analyzed stress development in instrument clusters using ANSYS software for analysis and Investigated NDT methods for testing of the instrument clusters. -Proposed improvements in manufacturing technique by collaborating with universities and other industry.



Publication

"MPC Controller for Autonomous Formula Student Vehicle", SAE Technical Paper 2020-01-0089, 2020, https://doi.org/10.4271/2020-01-0089