

## **RESUME**



**Mr. SYED SAMEER HUSSAIN**

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### **Objectives**

To work in a challenging and creative environment, thereby to effectively utilize my skills to contribute towards the goals of the organization while gaining as much knowledge as possible in order to achieve expertise in the working domain.

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### **Present qualification**

Pursuing Ph.D. in Bio Fuels (Part Time) from Visvesvaraya Technological University, Belgaum, Karnataka.

#### **Objectives of the Proposed Ph. D. Work:**

- To produce the biodiesel from WCO (Waste Cooking Oil).
  - To evaluate the properties of biodiesel from WCO dispersed with nanoparticles ( $Al_2O_3$ ).
  - To investigate the performance and emission parameters of a single stage IC engine using Waste cooking oil biodiesel dispersed with nanoparticles and their blends in varying Proportions
  - Validating the performance and emission parameters of IC engine with the analytical solution.
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### **Tools Knowledge Possessed**

Auto CAD, Solid Edge, CATIA, ANSYS, MS Office and Excel.

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### **Subject Knowledge**

Strength of Materials, Machine Design, Kinematics and Dynamics of Machine, Finite Element Method, Fluid Mechanics, Mechatronics, Management and Engineering Economics, and Automotive Engineering.

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### **Industrial Experience**

**Autoliv India Pvt Ltd**, Bangalore. (June 2015 to Jan 2016)

Role: Internship, 3<sup>rd</sup> semester, M-Tech (Machine design)

**Key projects:** Involved in **VEVA projects** for seat belt Steering wheel and air bag assembly with guidance from PUR lead, Data collection for Tool life monitoring.

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## Academic Project

**M-Tech Project:** Static and Buckling Analysis of Center Fuselage of a Transport Aircraft through FEA Approach.

**Establishing simulation model and identifying key contributors for buckling of center fuselage of a transport aircraft.**

Sizing of the Center Fuselage with standard calculations, Modelled with **CATIA V5**, discretization utilizing **Hyper Mesh** and analysis utilizing **Nastran**. Calculate the stresses in at different conditions and buckling load factor.

**BE Project:** Seat Belt vibration as a stimulating device for awakening the driver from drowsiness.

**Establishing the experimental setup and identifying key contributors for drowsiness of drivers along with this awakening the drivers by using seat belt vibration as a stimulating device.**

Driving while drowsy is one of the main causes of car accidents. Constructed a driving simulator, which was able to induce driver's drowsiness. By using a driving simulator, the driver's drowsiness was detected by changes in the eye movements measured by electrooculography.

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## Academic Qualifications

SL. No	Class / Degree	College / University	Aggregate	Year of passing
1	PhD (Bio fuels)	SECAB Institute of Engineering and Technology, Vijaypur.	Pursuing	
2	M-Tech (Machine design)	Dr. Ambedkar Institute of Technology, Bangalore / VTU Belagavi.	78.0%	2016
3	B.E (Mechanical Engg.)	R.T.E Society's Rural Engineering College, Hulkoti. (Gadag) /VTU Belagavi.	69.47%	2014
4	Diploma (Mechanical Engg)	GPT Bellary/ DTE Board Bangalore.	65.56%	2011
5	SSLC	ButtiBasavesvara High School, Kushtagi. (Koppal) / Karnataka State Board.	84.24%	2008

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## Work Experience

1) **Autoliv India Pvt Ltd**, Hoskote Industrial Area, Bangalore.

Designation: Internship, 3<sup>rd</sup> semester, M-Tech (Machinedesign)

Role: As a Graduate Engineering Intern, I worked on two projects: VEVA and Tool life monitoring.

- VEVA of auto components like steering wheel, seatbelt components and airbag. This project aimed at improving product value by reducing and optimizing cost.

- Tool life monitoring is a process of monitoring continuously the life of tools which are used for production of seatbelt and steering wheel component. Monitoring of tools like pressing, punching, molding etc.
- 2) **Dr. Ambedkar Institute of Technology, Bangalore.**  
Designation: Teaching Assistant.  
Work Duration: (From Sept-05/09/2014 to May-05/05/2015)
  - 3) **SECAB Institute of Engineering Technology, Vijaypur, Karnataka**  
Designation: Assistant Professor.  
Work Duration: (From July/10/2017 to till date)  
Subjects Taught: Finite Element Analysis, Fluid Mechanics, Strength of Materials, Management and Engineering Economics, Computer Aided Drawing, Mechatronics.  
Laboratories Handled: Fluid Mechanics and Machinery laboratory, Material Testing laboratory.

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### List of publications

- 1) Syed Abbas Ali, Shirajahammad Hunagund, **Syed Sameer Hussain**, Altaf Hussain Bagwan, “The effect of nanoparticles dispersed in waste cooking oil (WCO) biodiesel on thermal performance characteristics of VCR engine” *Materials Today: Proceedings*, 12 July 2020. <https://doi.org/10.1016/j.matpr.2020.07.214>.
- 2) Syed Abbas Ali, Shirajahmad, **Syed Sameer Hussain**, Altaf Hussain Bagwan, “Neural network approach of estimating CI engine performance and emission parameters from WCO based biodiesel”, *Materials Today: Proceedings*, 12 July 2020. <https://doi.org/10.1016/j.matpr.2020.07.223>.
- 3) Deepak Kumar T., **Syed Sameer Hussain**, D.K. Ramesha, “Effect of a zinc oxide nanoparticle fuel additive on the performance and emission characteristics of a CI engine fuelled with cotton seed biodiesel blends” *Materials Today: Proceedings*, 13 February 2020 <https://doi.org/10.1016/j.matpr.2020.02.509>.
- 4) **Syed Sameer Hussain**, Syed Abbasali, Altaf Hussain Bagwan, Dilip Sutraway, Mahammadrafeeq Manvi, Abbasali L Bagwan., **Influence of Al<sub>2</sub>O<sub>3</sub> Nano Material Additives based Biodiesel Blends on the Performance of Diesel Engine**, *International Research Journal of Engineering and Technology (IRJET)* Volume 6, Issue 4, April 2019.
- 5) Mahammadrafeeq Manvi, **Syed Sameer Hussain**, Sunil Thaned, Muttappa Domanal, Sarfarazali Khazi, Asif Iqbal Doddamani., **Energy-Exergy Analysis of CI Engine Fuelled with Rapeseed/Waste Cooking Oil based Biodiesel**, *International Research Journal of Engineering and Technology (IRJET)* Volume 6, Issue 4, April 2019.
- 6) Veerachari M Ravitejy P, Ramesh S, **Syed Sameer**, Vedavathi Banda., **Bending Stresses And Wear Reduction In An Involute Spur Gear**, *International Journal of Advanced Research Trends in Engineering and Technology*, Volume 5, Issue 3, Jan-2018.
- 7) Mohammad Rafiq Zyur Rahaman, Syed Abbas Ali, Asif Iqbal, **Syed Sameer Hussain**., **Experimental Investigation of Bending Properties of Carbon Fiber Reinforced Epoxy Composites**, *International Multidisciplinary Conference on Emerging Trends in Engineering, Science and Technology*, 23<sup>rd</sup> Dec, 2017, RSR RUNGTA College of Engineering & Technology Kohka, Kurud, Bhilai (C.G.), ISBN: 978-93-87405-99-8.
- 8) **Syed Sameer Hussain**, Syed Abbas Ali, Sunil Thaned., **Influence of Injection Pressure On The Performance of CI Engine Using Waste Cooking Oil As A Fuel**, *International Multidisciplinary Conference on Emerging Trends in Engineering, Science and Technology*,

23<sup>rd</sup> Dec, 2017, RSR RUNGTA College of Engineering & Technology Kohka, Kurud, Bhilai (C.G.), ISBN: 978-93-87405-99-8.

- 9) Altaf Hussain Bagwan, Syed Abbas Ali, Dilip Sutrave, Mohammadshakir, **Syed Sameer Hussain., Performance Analysis of CI engine using WCO as Biodiesel**, *International Journal of Current Engineering And Scientific Research*, Volume 4, Issue 11, September-2017.
- 10) **Syed Sameer Hussain**, Chandan R., **Buckling and Linear Static Analysis of centre fuselage Structure of a four seated Aircraft**, *International Journal For Technological Research In Engineering*, Volume 4, Issue 1, September-2016.

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### **Key strengths**

Quick learner, adaptive, self-motivated, and team player.

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### **Hobbies and interest**

Playing Cricket, Reading novels, Blogging, Travelling and Internet Surfing

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### **Portfolio Handled**

1. Magazine Coordinator
2. Departmental HR Coordinator
3. Colloquium Coordinator

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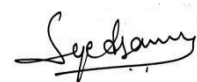
### **Personal Dossier:**

<b>Name</b>	:	Syed Sameer Hussain
<b>Date of birth</b>	:	22 <sup>nd</sup> April, 1993
<b>Father's name</b>	:	Syed Hasan
<b>Nationality</b>	:	Indian
<b>Language</b>	:	English, Kannada, Hindi and Telugu
<b>References</b>	:	Dr. Syed Abbasali (Professor, SIET, Vijaypur), Dr. A S Prashant (Professor, Dr. Ambedkar Institute of Technology, Bangalore)

### **Declaration:**

I hereby declare that the above mentioned information is true, as to best of my knowledge and belief.

Place: Vijaypur



**Syed Sameer Hussain**