

# RESUME

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## ALTAFHUSSAIN BAGAWAN

Mehaboob Manzil

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### *CAREER OBJECTIVE*

To excel in the professional career by acquiring knowledge and doing hard work. To utilize my learning and potential to its best and work as a key player in challenging and creative environment.

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### *EXPERIENCE (06 Years)*

- **TEACHING EXPERIENCE**

Organization Name: SECAB Institute of Engineering and Technology\*

Designation : Assistant Professor

Duration : 25-7-2013 to till date

- **OTHER EXPERIENCES**

- 1) Working as **Sports coordinator** of the present organization since August 2015
- 2) Working as **M. Tech. coordinator** for Machine Design branch in the present organization since August 2014
- 3) Working as **Sports Guide** for SECAB Association
- 4) Worked as **Departmental colloquium coordinator** of the present organization

- 5) Worked as a **Departmental academic coordinator** in the organization for the year 2014-15
- 6) Worked as **Training cell coordinator** in present organization for the year 2013-14

## **RESEARCH WORK**

- **PAPER PUBLISHED IN REPUTED JOURNALS**

1. **‘Effect of Fuel Injection Timing on Performance of CI Engine Using (Simarouba) Biodiesel as Fuel’**, [Journal of Automotive Engineering and Technology, Volume.1, Issue.3](#)
2. **‘Experimental Investigation of Effect of Fibre Diameter on Tensile Properties of Jute-Banana Fibre (Hybrid) Reinforced Epoxy Composite’**, [International Journal of Engineering Research & Technology \(IJERT\), volume.3, Issue.06, June-2014](#)
3. **‘Modeling and Simulation of Weld Induced Deformation by Using FEM Tool’**, [International Journal of Engineering Research & Technology \(IJERT\), volume.4, Issue.02, February-2015.](#)
4. **‘To Investigate the Performance and Emission Characteristics of CI Engine Using Mustard Oil Biodiesel as Fuel’** [Journal of Emerging Technologies and Innovative Research, Vol. 4, No. 9, pp. 2039–2048, 2017. ISSN 2349-5162.](#)
5. **‘Performance Analysis of CI Engine using WCO as Biodiesel’** [International Journal of Current Engineering And Scientific Research \( IJCESR\), Vol. 1, No. 11, pp. 1-5, 2017. ISSN 2393-8374.](#)
6. **‘Experimental investigation of tensile properties of bamboo reinforced epoxy composites’** [International Journal of Innovative Research in Science, Engineering and Technology \(IJIRSET\), Vol. 6, No. 15, 2017. pp. 179-188.](#)

7. ‘Influence of Injection Pressure on The Performance of CI Engine Using Waste Cooking Oil as a Fuel’ [International Journal of Mechanical And Production Engineering, ISSN: 2320-2092, Vol. 5, No. 11, 2017. pp. 11-14.](#)

• **SPONSORED AND FUNDED PROJECTS**

1. “Performance analysis of CI engine using waste cooking oil as biodiesel”  
**Karnataka State Council for Science & Technology, Govt. of Karnataka**
2. “Performance analysis and comparative study of CI engine using straight vegetable oils (SVOs)”. **Karnataka State Council for Science & Technology, Govt. of Karnataka**
3. “A development of virtual sensors for predicting IC engine exhaust emission”.  
**Karnataka State Council for Science & Technology, Govt. of Karnataka**
4. “Design and fabrication of hydraulically operated lifter and tilter mechanism”.  
**SHRISHTI-2017**

***COURSES UNDERTAKEN***

• **THEORY SUBJECTS**

SUBJECT	SUMMARY
1) Elements of Mechanical Engg.	<b>Internal Combustion engines, 2/4 stroke petrol engines, 4-stroke diesel engine, Refrigeration and Air conditioning, Lathe, drilling, milling, grinding machines, welding, soldering, and lubrication.</b>
2) Mechanics of Materials	<b>Stress, strain, shear stress, shear strain, Mohr circle for plane stress condition,</b>

	shear force and bending moments(SFD & BMD), types beams & loads, torsion in solid & hallow shafts, columns with different end conditions.
<b>3) Kinematics of Machines</b>	Links, Kinematic pairs, Degree of freedom, Mechanisms, Inversions, Spur gears, Gear terminology, Gear trains, simple, compound, Epicyclic gear trains, Cams, Types of cams, Types of followers, Follower motions.
<b>4) Dynamics of Machines</b>	Friction and belt drives, Laws of friction, flat belt drives, Balancing of rotating masses, static and dynamic balancing of rotating masses, Governors- Types of governors, Gyroscope.
<b>5) Automotive Engineering</b>	Engine components and cooling & Lubrication system, SI and CI engines, Fuels, Fuel supply systems for SI and CI engines, Ignition systems- Battery, magneto, electronic, Automatic ignition advance systems, Suspension, Brakes.
<b>6) Hydraulics and Pneumatics</b>	Hydraulic power, Pascal's law, Different types of hydraulic pumps, Hydraulic Actuators and Hydraulic motors, Maintenance of hydraulic system, Hydraulic oils, Reservoir system, Filters and strainers, Pneumatic control- Pneumatic systems, Pneumatic actuators.
<b>7) Material Science and Metallurgy</b>	Crystal structure- BCC, FCC, HCP. Mechanical behavior- Stress- Strain diagram for different materials, Fracture, creep, fatigue, Composite Materials.

### • PRACTICAL SUBJECTS

<b>SUBJECT</b>	<b>SUMMARY</b>
<b>1) Design lab</b>	Balancing of rotating masses, Critical speed of rotating shaft, Porter governor, Proell governor, Hartnel governor,

	Gyroscope, Determination of fringe constant of photoelastic material.
2) Computer Aided Modeling and Analysis Lab	Study of a FEA package and modeling stress analysis of bars, trusses, and beams. Stress analysis of a rectangular plate with a hole, Thermal analysis.

• **PG SUBJECTS (MACHINE DESIGN)**

1) Experimental Mechanics	
2) Theory of Plasticity	

**EDUCATION & CREDENTIALS**

COURSE	COLLEGE/SCHOOL	UNIVERSITY/ BOARD	YEAR OF PASSING	AGGREGATE/ STATUS
<b>PH.D</b>	SECAB. I. E. T, Bijapur	V.T.U	2017 (Registered)	Appearing for course work
<b>M.TECH. (Machine Design)</b>	K.L.E. Society's College of Engineering and Technology, Belgaum-08	V.T.U	2013	<b>76.12%</b>
<b>B.E</b>	Basaveshwar Engineering College, Bagalkot-587102	V.T.U	2011	<b>73.15%</b>

**PARTICIPATED AND ORGANIZED EVENTS**

- 1) Organized a workshop “**Regional Round of Aerotrix Automobile Prototyping Challenge**” conducted in association with “Techkriti’15, IIT Kanpur” on 13-14<sup>th</sup> March, 2015 held at **SECAB.I.E.T, Bijapur**
- 2) Organized FDP on “**Pedagogy**” on 21st October 2014 held at **SECAB.I.E.T, Bijapur**

- 3) Organized a workshop “**Auto Gusto – 2k16**” a two day project based training program on 12<sup>th</sup> & 13<sup>th</sup> April, 2016 held at **SECAB. I. E. T, Bijapur**
- 4) Attended one week FDP on “**Innovative Product Design**” from 29<sup>th</sup> March to 2<sup>nd</sup> April, 2016 held at **BLDECET, Bijapur**
- 5) Attended FDP on “**Faculty orientation workshop – 2016**” held at **SECAB. I. E. T, Bijapur**
- 6) Attended a workshop “**E – Resource for Academic Excellence and Research**” on 27<sup>th</sup> October, 2016 held at **BLDECET, Bijapur**
- 7) Attended FDP on “**Advanced analytical characterization of materials**” on 26<sup>th</sup> and 27<sup>th</sup> August, 2015 held at **PESIT, Bangalore**
- 8) Attended a workshop “**DRE-Train the Trainer**” programme on 28<sup>th</sup> and 29<sup>th</sup> January, 2016 held at **N. K. ORCHID College of Engg. & Tech., Sholapur**
- 9) Attended workshop on “**Non-Ferrous Extractive Metallurgy**” held during 25-26<sup>th</sup> March, 2015 held at **NITK, Surathkal**
- 10) Attended a workshop on “**Energy Management**” held on 29<sup>th</sup> September 2014 held at **BLDECET, Bijapur**
- 11) Attended a workshop on “**Scilab**” from 10 to 12<sup>th</sup> May, 2012 at **KLECET, Belgaum**
- 12) Organized and attended a workshop on “**NI LabVIEW- A Hands on approach**” from 16<sup>th</sup> to 21<sup>st</sup> January 2017 held at **SECAB. I. E. T, Bijapur**

13) Attended a one week workshop on **“Research Literacy and Trends in Scholarly Communications”** from 23<sup>rd</sup> to 28<sup>th</sup> January 2017 held at **BLDECET, Bijapur.**

14) Organized a Guest Lecture on **“Awareness of various software’s of Mechanical Engineering”** on 27<sup>th</sup> November, 2016 by **Mr. Santosh Patil, The Managing Director of Educad centre Vijayapura.**

15) Organized **‘VTU Kalburgi Zone Cricket Team’s selection trials’** on 23<sup>rd</sup> October, 2017 at **SECAB. I. E. T, Vijayapura**

## COLLOQUIA ORGANIZED

Sl. No.	Resource person	Internal/external	Topic	Date
01	Prof. N. R. Banapurmath, bvbcet, hubli	External	Alternate fuels for ic engines	10/11/2016
02	Prof. Anandhan srinivasan, nitk, surathkal	External	Fundamentals of nanocomposites	27/02/2017
03	Prof. Dilip sutraway, s. I. E. T, vijayapur	Internal	Biodiesel	07/11/2016
04	Prof. Shashir kenganal, s. I. E. T, vijayapur	Internal	Fundamentals of composite materials	07/11/2016
05	Dr. P. ARJUNRAJ, Manager-R&D, Powergear train Pvt. Ltd. Bengaluru	External	IC engine testing & emission control technologies”	November 14, 2017
07	Dr. MOHAMMAD TALHA (IIT Mandi)	External	“Role of composite material in modern orthopaedic medicine”	November 27, 2017



### ***HONOR, AWARDS ETC.***

- 1) I have been awarded as “**Distinguished Faculty**” for the year 2017-18 at SECAB. I. E. T, Vijayapura
- 2) I have been awarded as “**Best Performer**” for the year 2016-17 at SECAB. I. E. T, Vijayapura
- 3) Received “**Certificate of Appreciation**” for outstanding performance and exceptional commitment towards work for the year 2015-16 at SECAB. I. E. T, Vijayapur

### ***PERSONAL DETAILS***

Date of Birth : 30<sup>th</sup> May 1987.  
Father’s name : Hashim Bagawan  
Sex : Male  
Marital Status : Single  
Languages Known : English, Hindi, Urdu and Kannada.  
Nationality : Indian

### ***DECLARATION***

I hereby declare that the information furnished above is true to the best of my knowledge

**Place:** Vijayapur

**(ALTAFHUSSAIN BAGAWAN)**