

CURRICULUM VITAE

Name : **Raghavendra V Sugandhi**
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I. Professional and Career Objectives

- To pursue intellectual and challenging career in the field of teaching.
- To be associated with a progressive organization that gives scope to update my skills in accordance with the latest trends.
- To be a part of team that dynamically works towards the growth of the organization and gives work satisfaction.
- Ability to render my service to the organization up to peak of my ability, strength & Knowledge, with dedication and utmost commitment

II. Curriculum Activities and Educational Qualifications

Course	Board/ University	Year of Passing	Sem/Percentage
MASTER OF TECHNOLOGY IN PRODUCTION TECHNOLOGY	Basaveshwar Engineering College, Bagalkot (VTU Karnataka)	2016	CGPA 9.64 (89%)
BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING	Basaveshwar Engineering College, Bagalkot (VTU Karnataka)	2007	Overall aggregate: 71.97% (Distinction)
P.U.C-II	Pre University Examination Board Bangalore (Karnataka).	2003	60.16 % (First class)
SSLC/10th Std	Karnataka Secondary Education Examination Board, Bangalore, Karnataka.	2001	82.24% (First class)

Specialization Courses

Course	College	Year of Passing	Grade
Pre-Sea training Course in Marine Engineering	Institute of Maritime Studies GOA.	2008	B+

Academics Achievements:

Bachelor of Engineering (Mechanical Engineering):

- I was a **class representative** for 2nd year engineering.
- I was **second topper** for 6th semester.
- I was **subject topper** in Manufacturing process-3.
- Won **3rd prize** in State level project exhibition and competition for engineering students "**SHRISTI**".

MTech (Production Technology):

- **Second topper** in 1st semester.
- **Topper** in 2nd semester.
- Secured **10/10 SGPA** for 3rd semester.
- I was **class representative** for 1st and 2nd semester.

Paper Publications:

1. "**Fabrication and Evaluation of Mechanical Properties of A380/B4C Composite**" Raghavendra V Sugandhi, S A. Kori, S M. Jigajinni, M. M. Ganganallimath National Conference on Mechanical, Materials, and Manufacturing Engineering (NCMMME-2016), NIE, Mysuru, Karnataka, India, May 23 – 24, 2016.
2. "**Dry Sliding Wear Behavior of A380/ B4C Composite**" Raghavendra V Sugandhi Akash V Biradar , S M. Jigajinni International Journal of Innovative Research in Science Engineering and Technology, Vol. 5, Issue 5, May 2016 ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710.

Conference/workshops attended:

- **Intellectual property rights** awareness programme at BEC.
- **Research methodology** at BEC.
- **National Conference On Mechanical, Materials and manufacturing Engineering-2016** held in The National Institute Of Engineering, Mysuru.
- **International symposium on " Emerging Technologies for Sustainable Development"** organized on Feb 2017, BEC Bagalkot.
- **Participated in short term course on " Introduction to Iron making"** under the QIP of AICTE, New Delhi.
- **Participated in technical paper presentation in National Conference on " Innovative Approaches in Mechanical Engineering"** at St. Martin's Engineering college.

- **Participated in short term course on " Operations Research: Principles and applications" at IIT (BHU) Dec 2019.**

Industrial training:

- Completed 2 months industrial training in **Hampson Aerospace Industry, Bangalore.**

Work Experience:

Organization : Anglo Eastern Ship Management.

Designation : 4th Engineer officer (Maintenance/procurement Engineer).

Period : 2009-2012

Company Profile: Leading International ship Management Company, based in HONG KONG and Operating more than 300 Ships on worldwide trading. Specialized in managing various types of ships from Bulk carriers, container ships and multipurpose ships to tankers and Gas carriers. Anglo Eastern is one of the few companies that has specialized ships plying in Arctic and operate heavy lift carriers to service various specialized sectors of industries.

Job Profile:

- Joined merchant navy through **off-campus** conducted in IMS, Goa.
- I was **one** among **50 students** selected all over **India**.
- I worked for Anglo Eastern Ship Management.
- I Joined as **junior engineer** and then **promoted to 4th engineer**.
- I Cleared my **class 4 exam** from **D G Shipping, Mumbai**.
- I was a **core member** of Planned Maintenance Team, Breakdown Analysis Team, Safety Team, Firefighting Team.
- I was promoted from J/E to 4th/E after completing class 4 exam and orals in MMD Mumbai.
- **Conducted** various **technical training programme** and **safety programme on-board** for junior team.

III. Projects Undertaken During Mtech, Engineering, Pre-Sea Training Course.

1. Project Name: "Application of six sigma road map in evaluation of properties of A380 Al-alloy/B₄C composite"

Description: Aerospace and automotive industries are the fast growing sectors which are playing a vital role in stabilizing the world's economic growth. The major reason for their success is effective utilization of the resources available in abundant i.e. aluminium. The part manufactured out of these metals are not only cost effective but also good in the properties like high strength to weight ratio, stiffness, toughness and wear resistance. Although these base metals are having so many advantages but for some specific application they are lagging to contribute, this disadvantage has been overcome by the advent of composites. Composite material are mixture or combination of two different material mixed in proper mixture which gives properties higher than that of the base metal. The aim of present study is to evaluate the mechanical properties of A380 Al-alloy reinforced with Boron Carbide (B₄C) using six sigma roadmap. Six sigma being one of the famous management tool in evaluating a system or process. An attempt has been made to build a bridge between management and technical field by using a management tool which is six sigma in evaluating properties of A380/B₄C composite. The mechanical and tribological properties of A380/B₄C are evaluated using tensile test, impact test, micro hardness indentation test, and wear test. Samples are fabricated using stir casting process. Composites having different weight % of Boron Carbide (0%, 3%, 5%, 7%, 9%) were fabricated. The microstructure study is used to observe dispersion of B₄C particle in A380 Al-alloy metal matrix. The results obtained from microstructure, tensile test, impact test, micro indentation and wear test were studied. The results revealed that as the %wt of B₄C was increased there was improvement in impact strength, hardness value and wear resistance but reduction in the ductility was observed in tensile test.

Outcomes:

- Through this work a attempt was made to understand the nature of A380 Al-alloy and its application in the field of automotive and aerospace.
- The reinforcement material which was used in the study has revealed that the use of B₄C has improved the quality of the composite.
- The work also builds a bridge between the management and technical field.
- The study throws light on the areas of A380 Al-alloy where this alloy can be used and need for improvements.
- This work successfully reveals the use of this composite in specific application where the base metal alone fails to satisfy.

2. Project Name: "Design and Fabrication of Transmissibility Analyzer For Shock Absorber"

Description: The machine which is fabricated was used to test the motor cycle dampers and to find its transmissibility. The machine proposed has to transmit compressive load to a shock absorber under impulse condition and this is proposed to be achieved by rotating translating cam. The cam is an inclined plane of a fixed height, which is forced under the shock absorber periodically. A rotating disk on which the cam is to be mounted can achieve the periodic motion. The disk is to be driven by an electric motor at required speed of the disk. This call for a variable speed motor either AC or DC, such a motors are expensive and are not easily available. Hence in order to reduce the cost of machine, it is proposed to provide three speeds to the disc. Based on the above proposed design a machine has been built to find the transmissibility, jump and trajectory covered by the shock absorber.

Outcomes:

- Studied the behavior of the shock absorber with different cam size.
- The work helped to known the transmissibility, jump and trajectory covered by the shock absorber.
- This portable machine helps to design the shock absorber for motor cycles.

"This Project won Third prize in state level project exhibition, Mechanical stream SHRISTI-07, at Basaveshwar Engineering College, Bagalkot"

3. Project Name: "Ship Rolling reduction method"

Description: Participated in competition conducted by marine engineering college in which we did a project related to roll reduction method. This project dealt with the procedures used onboard ship to reduce the rolling effect caused due to rough weather explained in details about fin stabilizer antiroll tanks, bilge keel. These are the few methods which have been incorporated onboard to reduce the rolling effect.

Outcomes:

- To make working condition onboard comfortable.
- To make staying condition onboard comfortable, this avoids seamen suffering from sea sickness.
- Avoids the shifting of cargo in the holds or on the deck.
- Maintenance work on the machineries can be carried easily.
- Any measurements taken on machine will be accurate.
- Performance test carried out on auxiliary engine or main engine will accurate.

IV. CERTIFICATIONS:

During pre-sea training course:

- Personal survival technique.
- Fire prevention and fire fighting.
- Personal safety and social responsibility.
- Elementary first aid.

Company courses:

- Machinery maintenance skill enhancement programme.
- Knowledge and learning management system.
- Bridge maneuvering and engine control (operational level).
- Safety campaign on machinery breakdown.
- Basic hydraulics for engineers.
- Engine room simulator (operational level).
- Four stroke diesel engine maintenance.
- Pollution prevention and MARPOL Course.
- Safety campaign on machinery breakdown.

Supplementary courses:

- Oil tanker familiarization from United Marine Company.
- Liquefied gas tanker familiarization from B P Marine Academy.
- Medical first aid from Mumbai Maritime Training.
- Advance fire fighting from Shipping Corporation of India Ltd

IV. TECHNICAL SKILLS:

- Operating System : Windows 7 & Windows 8.
- ERP : SAP (MM Modules basic)
- Computer know-how : Office tools- Microsoft word, excel, power point.
CAD tools- AutoCAD.
Applications- Photoshop, MS Point.

V. Personality traits:

- Good Communicator
- Continuous Learner
- Motivated
- Honest
- Hard worker
- Realistic

Extracurricular Activities:

- Participated in 8 km Marathon race organized as a part of 45th National Maritime Day celebration, Goa.
- Was part of the cricket team which participated in inter-zonal tournament held in Banahatti.
- Awarded best bowler award in cricket tournament held in BEC.
- Included as a team member of food department for Akhil Bharata Shahitya Sammelana held in Bagalkot.

Current Profile: Currently working as Assistant professor in Biluru Gurubasava Mahaswamiji Institute of Technology, Mudhol

<u>Academic Administrative Responsibilities</u>		
Sl.NO	Role	Period
1.	Project coordinator	2016-17
2.	Entrepreneur development cell coordinator	2017-18
3.	Student coordinator	2018-19
4.	Induction program coordinator	2018 to till date
5.	Human resource development coordinator	2018 to till date

Personal Profile

Name : Raghavendra V Sugandhi
Gender : Male
Date of Birth : 18-Nov-1984
Age : 34 yrs.
Marital Status : Married
Languages known : English, Hindi, Kannada, Marathi
Hobbies : Music, Cricket, Reading

Permanent Address:

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Declaration:

I hereby declare that the above particulars furnished by me are true to the best of my knowledge and I bear the responsibility for the correctness of the above mentioned information.



Place: BAGALKOT

Date:

(Raghavendra V Sugandhi)