

Curriculum Vitae

1. Personal Details

Dr. Eriki Ananda Kumar, Associate Professor,
Department of Mechanical/Automotive Technology,
FTVET, Ethio-China University, Addis Ababa, **ETHIOPIA**
Tel: **+251 955422524**,
Email: erikiananda@yahoo.co.in and erikiananda@gmail.com
Date of Birth: 04 June 1978 **Skype ID:** erikiananda1
Nationality: **India.** **Passport No:** L6715143
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R&D: To provide a holistic enabling to potential research & entrepreneur and graduating students so as to translate knowledge and innovation in to creation of successful research products and industries to meet the immediate needs of society and the industry.

Teaching Philosophy: To conduct high quality courses and to constantly upgrade with the current demand and also to build students to pursue their knowledge and career in their future trends.

Objective: To work as a committed professional with high quality of work, research and contribute towards organizational growth. Develop and refine the teaching and learning process within the department and initiate research opportunities.

Summary: I have more than **13 years** of experience in academics/Industrial, sound knowledge in Mechanical/Automotive/Industrial engineering areas and contribute to the department strategic action plans, delivery and development of teaching, research and professional services. I have gained various skills such as CAD/CAM/CIM, CNC and robot programming, communication and interpersonal, my research interests are in Titanium alloys.

2. Education History

- a. Pursuing Second-**Ph.D** in Mechanical Engineering-Part time, *VELs University, Chennai, India. 2020 expected.*
Course Work: Research Methodology, Computer Aided Design and Manufacturing, Applied Material Engineering, Tools Engineering.
Research Topic: "To investigate End-mill toll life & surface texture of Titanium alloy (Ti6AL4V) with preheating of work surface"
- b. **Ph.D** in Automotive Engineering: *University of New Castle-Malaysia (center), 2007.*
Research Studies: Finite element methods, Crash Engineering and CAD/CAM Advanced Process, Material Management and LS-Dyna ver.970
Research Topic: "Crush Simulation of Car using LSDYNA"
- c. **Master of Engineering** in Computer Aided Design [*Sathyabama University, India, 2006.*]
Subjects Studies: Optimization methods, Mechanical behavior of Engineering materials, NC Machine tools, Robotics, Advanced strength of materials, Advanced mechanical vibrations, FEM, CIM, Product design, Design manufacturing, Design of material handling equipment's, Computer graphics and drafting, Robust design and Rapid prototyping.
Mini Project: "Gear Crack Propagation Path Analysis using FEM"
Final Project: "Tool and Job scheduling in tool constrained environment using Branch and Bound Technique"

- d. **Bachelor of Mechanical Engineering, SVCET, JNT University, Hyderabad, India, 2003.**
Subjects Studies: Engineering mechanics, Engineering graphics, Mechanics of solids, Machine drawing, Thermodynamics, Mechanics of fluids, Production technology, Kinematics of machinery, Metallurgy and Material science, Machine design, Instrumentation and control systems, Automobile engineering, Heat transfer, Elements of production drawing, Operations research, CAD/CAM, Refrigeration and Air-conditioning, Unconventional machining processes, Internal combustion Engines, production planning and control.
Final Project: "A Study on Performance of Boilers and measures to increase the Efficiency of scotch marine boiler"
 - e. **Diploma in Mechanical Engineering, VMR Polytechnic, Warangal, India, 1998.**
Subjects Studies: Applied science, Engineering metallurgy, Engineering drawing, Workshop technology, Solid mechanics, Production technology, Thermal Engineering, Fluid Mechanics, Machine drawing, Design of machine elements, Refrigeration and Air Conditioning, Industrial Engineering, Industrial management and Entrepreneurship.
Final Project: "Assembling of Washing machine with timer attachment"
 - f. **Certificate-ITI (Welder), Sri Balaji Industrial Training Institute, Tirupati, India, 1995.**
Subjects Studies: Workshop calculation and science, Engineering Drawing and Workshop practical
Final Project: "Development of different welding techniques in overhead projections"
3. **Expertise (Certified)**
- a) **SolidWorks 2011** (IME CAD/CAM Training Centre Sdn Bhd, PJ, Selangor, **Malaysia**)
 - b) **PRO/E wildfire and AutoCAD 2009** (CAD Center, Tirupati, Andhra Pradesh, **India**)
 - c) **ANSYS** (CAD-IT Consultants (M) Sdn Bhd, Petaling Jaya, Selangor, **Malaysia**)
 - d) **MAT LAB** Programming & Simulink (ActiveMedia Innovation Sdn Bhd, PJ, **Malaysia**)
 - e) **CNC simulator** (MTS Didactic Group of Companies, ShalAlam, **Malaysia**)
 - f) **MasterCam2015** (CIASST, Shah Alam, **Malaysia**)
 - g) **ROBOT** Programming (Flexible Automation System Sdn, Bhd, PJ, **Malaysia**)
 - h) Electro **Hydraulic & Pneumatic** (Power-Air Didactic, Selangor, **Malaysia**)
 - i) **CNC Training-Programing** (ACE Designers, Muscat, **Oman**)
4. **Research Experience**
- a. Manufacturing processes – Precision grinding of Ti6Al-4V alloy using them novel bondless diamond Grinding wheel.
 - b. Simulation Analysis – Crash Impact.
 - c. Fracture Mechanics – Crack propagation path analysis and simulations.
5. **Industrial Experience**
Production Engineer-CNC, Hawashi Auto products, Chennai, India (June 2003-May 2004)

6. Professional Affiliations

a) Membership of Professional Bodies

No.	Name of Professional Bodies	Year Join	Grade & Membership No.
1	Institution of Engineers Malaysia	07/2011	Corporate Member (IMechE) Reg. No.= 80146111
2	International Association of Engineers	09/2011	Corporate Member (IAEng) Reg. No.= 115155

b) External Professional Services

No.	Name of Professional Bodies	Year Join	Name of External Bodies
1	<u>Advisory Board Member:</u> i. International Institute of Engineers and Researchers ii. International Academy of Science, Technology, Engineering and Management	2014 – Present	IIER IASTEM
2	<u>Editorial Board Member and Panel Reviewer:</u> i. International Journal of Mechanical Engineering and Applications. ii. International Journal of Material Science and Applications. iii. International Journal of Oil, Gas and Coal Engineering iv. International Journal of Computational and Manufacturing Research	2014 – Present	IJMEA IJTRA OGCE IJMCMR
3	<u>Editorial Board Member:</u> i. International Journal of Advances in Material ii. International Journal of Technical Research and Applications. iii. International Institute of Science Engineering & Management.	2017 – Present 2016 – Present 2014 - Present	IJAM IJTRA IISEM
4	<u>Panel Reviewer</u> i. Iranian Journal of Science and Technology ii. International Journal of Exergy	2014 – Present	IJSTM IJEX

7. Guest Lecture/Workshop/Faculty Development Program

No.	Topics/Theme	Organizer
1	FDP: Ansys CFD modeling of 3D objects 20 & 21 Dec, 2017	CADD Centre, Tirupati, India
2	Guest Lecturer: Hexagon spider robot 10 Aug, 2016	Shree Institute of Technical Education, JNT University, Tirupati, India
3	Guest Lecturer: Car cool technology under direct sunlight using solar energy 05 Aug, 2016	VELS University, Chennai, India
4	Guest Lecturer: Implementation of a Typical CAD process on a CAD/CAM/CIM system 29 Jul, 2016	VEMU Institute of Technology, JNT University, Tirupati, India
5	Workshop: Latest HSE (Health Safety and Environment) Practices in Oman 14 April, 2016	International College of Engineering and Management (ICEM) Muscat-OMAN
6	Guest Lecturer: Computer aided design-Hands On, SolidWorks 16 Jan, 2013	Annamacharya Institute of Technology and Sciences, JNT University, TPT, India
7	Guest Lecturer: Final Year Project Challenges for Engineers, 23 Sept, 2012	Sathyabama University, Chennai, India
8	Workshop: Road to BEM Accreditation IPTS Experience, 11 Oct, 2010	Institution of Engineer (IEM), Kuala Lumpur, Malaysia

8. Research Awards and Recognitions

- i. **Keynote Speaker**; for 60th International Conference on Innovation for Next Generation (IN Gen 2018) May 11th – 12th 2018, Pondicherry, India.
- ii. Develop the **Startup** policies and **IPR** policies for VEMU Institute of Technology, 24 Feb 2018, P.Kothakota, India.
- iii. **Young Scientist Award 2017** in International Organization of Scientific Research and Developments (IOSRD) Annual awards year 2017 held on 29th & 30th Dec 2017, Chennai, **India**.
- iv. **Keynote Speaker**; for 42nd International Conference on Advances in Science, Management & Engineering (**ICASME 2017**) Dec 29th – 30th 2017, Chennai, India.
- v. **Best Paper Award 2017** in 42nd International Conference on Advances in Science, Management and Engineering (**ICASME 2017**) Dec 29th – 30th 2017, Chennai, India.
- vi. Setting up of **INCUBATION CENTER** for VEMU Institute of Technology, 27 September 2017, P. Kothakota, India
- vii. Submitted the **proposal to Funding agency**; File No: EMR/2017/002532; **Project Title:** *PRECISION GRINDING OF Ti6Al-4V ALLOY USING THE NOVEL BONDLESS DIAMOND GRINDING WHEEL*. **Scheme:** Extra Mural Research Funding (Individual Centric)-**India** Broad Area: Engineering Sciences. 29th July 2017.
- viii. **Keynote Speaker**; Advisory committee for 2nd International Conference on Frontiers in Automobile and Mechanical Engineering (FAME 2016) at **Satyabhama University**, July 7th – 9th 2016, Chennai, **India**
- ix. **Gold Medal** for Excellent Research Paper, the International Conference on Mechanical, Aerospace and Production Engineering (ICMAPE), 18 October 2014, **Malaysia**.
- x. **Gold Medal** for Excellent Research Paper, the International Conference on Mechanical, Aerospace and Production Engineering (ICMAPE), 05 September 2014, **Singapore**.

8. Foreign external PhD examiner

No.	Academic year	Degree	Awarding Institution	Title of Project with Doctoral details
1	March 3, 2019	Ph.D Thesis	Visvevaraya Technological University (Belgavi, India)	Development of High Performance Thermo Plastic Polymer Blended Epoxy Based Nanocomposites Reinforced with Halloysite Nano Clay for Structural Application".
	January 8, 2017		Hindustan University(Chennai,India)	Analysis on Multi Material Body-In-White for Mass Optimization Research Scholar: Rajasekaran. M
2	March 3, 2016		Sathyabama University (Chennai,India)	Identification and Controlling of a Vehicle using Intelligent Transport System Research Scholar: G.Elumalai Reg.No. 2010194101
3	June 22, 2015			Multi objective optimization of DI Diesel Engine Parameters using Nanocatalyst with blends of lemon grass oil by grey relation analysis Research Scholar: S. Ganesan Reg.No. 2010194109
4	July 1, 2015			Fracture Analysis and Mechanical Characterisation of Hybrid Fibre Reinforced composites Research Scholar: V.Santhanam Reg.No. 2009194107
5	June 15, 2014	Experimental Investigation and Analysis of High Velocity Oxy Fuel (HVOF) Coating Technique Research Scholar: K.N. Balan, Reg. No. 2008194298		
6	July 7, 2013	Msc Thesis	Universidad Nacional Experimental Politecnica (Venezuela)	Crack Behaviour in ERW Welding of Pipe using ANSYS 12.0, Student Name: Luis Espinoza, Contact: 0058-04167985219, email: espinozalr@pdvsa.com
7	April 16, 2013		Indian Institute of Technology-BhubaneswarIIT (Odisha,India)	Design of Optimum Patch shape and size to repair the cracked composite panels (made of CFRP) Student Name: G. Vamshi, Contact: +91-9853971643, email: vg11@iitbbs.ac.inwww.iitbbs.ac.in/

9. Academic Experience

No.	Period	Designation/ University/College/Institution/Country	Years
1	Nov 2018 – Till date	Associate Professor, Department of Mechanical/Automotive Technology, FTVETI, Ethio-China University, Addis Ababa, Ethiopia	Currently
2	July 2017 – Oct 2018	Professor, Director R&D, Department of Mechanical Engineering, VEMU Institute of Technology, P.Kothakota, JNTUA,AP, India	1½ year
3	Feb 2017- June 2017	Faculty, Department of Mechanical Engineering & Vehicle Technology, University of the West of England (UWE), Bristol, U.K Collaborations with Global College of Engineering & Technology, Muscat, Oman	2 years
4	July 2015- Feb 2017	Faculty, Department of Mechanical and Industrial Engineering, Glasgow Caledonian University (GCU), U.K Collaborations with Caledonian College of Engineering, Muscat.	
5	Jan 2010- July 2015	Senior Lecturer, Department of Engineering, Faculty of Engineering, Science and Technology, Nilai University, Nilai, Malaysia	6 ½ years
6	Dec 2007- Dec 2009	Lecturer, Department of Mechanical Engineering, The Sheffield University (1+3)-UK and University of Sunderland (3+0) UK, in Collaborations with SEGi University, Selangor, Malaysia	2 years
7	July 2006- Aug 2007	Instructor, Department of Automotive Engineering, Edith Cowan University, Australia Collaborations with The Otomotif College, Kuala Lumpur, Malaysia	1 ½ year

- A. FEDERAL Institute of Technology, Addis Ababa- Ethiopia**
 AUT613 Automobile Accident Analysis Nov 2018 – Jan 2019
 AUT512 Design and Modifications of IC Engines Feb 2018 – till date
 MAT359 Machine element Feb 2018 – till date
- B. VEMU Institute of Technology, P.Kothakota, B.Tech, Mechanical Engineering, JNTUA- India**
 15A04502 Power Plant Engineering Jan 2018 – April 2018
 15A03101 Engineering Drawing July 2017 – Dec 2017
- C. Global College of Engineering and Technology, Muscat, Oman, B.Eng. (Hons) program, Mechanical Engineering and Vehicle Technology, in collaboration with University of the West of England (UWE), Bristol, U.K**
 UFMFN3-30-1 Design, Materials and Manufacturing Feb 2017 – June 2017
 UF CFGK-30-0 Engineering Experimentation Feb 2017 – June 2017
- D. Caledonian College of Engineering (University College), Sultanate of Oman, Oman, B.Engg programme, Mechanical and Industrial Engineering, in collaboration with Glasgow Caledonian University (GCU), U.K.**
 MHH106468 Computer Aided Design Sept 2015 – Feb 2017
 M1H321458 Mechanical Principles Sept 2015 – Feb 2017
- E. Nilai University, B.Engg programme, Mechanical Engineering. Nilai, Malaysia.**
 EE3383 Finite Element Analysis Jan 2013 – Jun 2015
 EE3275 CAD/CAM Jan 2011 – Jun 2015
 EE3266 Manufacturing Technology Jan 2010 – Jan 2015
 EE3370 Material Science Jan 2010 – Jan 2013
- F. SEGi University College, Malaysia, B.Eng program, Mechanical Engineering, in collaboration with University of Sheffield (1+3) Program, U.K**
 MEC113 Solid Liquied and Gases Jan 2008 – Dec2009
 MEC118 Thermofluids Jan 2008 – Dec2009
- G. SEGi University College, Malaysia, B.Eng program, Mechanical Engineering, Collaboration with the University of Sunderland (3+0) Program, U.K**
 EAT 223 Thermofluids and Engines Jan 2008 – Dec 2009
 EAT 227 Manufacturing Processes Jan 2008 – Dec 2009
 EAT 216 Computer Aided Engineering Jan 2008 – Dec 2009
- H. SEGi University College, Malaysia, B.Eng Program, Civil Engineering, Collaboration with The Queensland University (3+0) Program, Australia.**
 ED 1023 Engineering Graphics May 2009 – Dec 2009
- I. The Otomotif College, Malaysia, Diploma in Automotive Engineering, in collaboration with Edith Cowan University (2.5 years) Program, Australia.**
 DMAT103 Automotive Chassis system July 2006 – Aug 2007
 DMAT124 Engine Fault Diagnosis July 2006 – Aug 2007

10. Duties and responsibilities of International Universities

Name of Universities (Location)	Description of Main Duties & Subjects	Occupation & Years of Experience
<p>FTVETI, Ethio-China University Addis Ababa, (ETHIOPIA)</p>	<p>Responsibilities:</p> <ul style="list-style-type: none"> To provide support all parts of Automotive Techno program planning of module materials, assessment, making exam courses of action for MSc students. To enhance interaction and cooperation between researchers for interdisciplinary and multidisciplinary To inculcate the spirit and culture of research amongst all the Students and faculties. To establish links with various R&D organization and funding agencies. To forge academic and research collaborations. 	<p>Associate Professor (Nov 2018 –Till date)</p>
<p>VEMU Institute of Technology P.Kothakota, AP, (INDIA)</p>	<p>Responsibilities:</p> <ul style="list-style-type: none"> To provide support all parts of mechanical engineering program planning of module materials, assessment, making exam courses of action, advance pursuing on constant appraisal and delivering comes about for JNTUA To write a proposal for funding agencies. Planning and implementing the research project activities Interact and share ideas with C-PI on a day to day basis. Should maintain confidential of research outcomes and follow the Health and Safety precautions in research lab Prepare the project progress for presentation of Funding agency. <p>(Annexure)</p>	<p>Professor, Director of R&D <u>1½ year</u> July 2017–Oct 2018</p>
<p>GCET, Global College of Engineering and Technology, Muscat, (Oman)</p>	<p>Responsibilities:</p> <ul style="list-style-type: none"> To provide for all parts of mechanical engineering and vehicle technology program conveyance including the creation of timetable, handbooks, planning of module materials, assessment, making exam courses of action, advance pursuing on constant appraisal and delivering comes about for University of the West of England, Bristol-UK. To undertake any other duties and training as assigned by the Academic Division head appropriate to the grade of the position. 	<p>Faculty Feb 2017–June 2017 <u>2 years</u></p>
<p>Caledonian College of Engineering (A University College), Muscat, (Oman)</p>	<p>Responsibilities:</p> <ul style="list-style-type: none"> To support for all aspects of program delivery including the production of timetables, preparation handbooks, preparation of module materials, evaluation, making exam arrangements, progress chasing on continuous assessment and producing results for Glasgow Caledonian University-UK To receive and record student assignments and to collate and distribute to markets. To receive and records marks and maintain an accurate record. Internship coordinator/industrial collaborations and commercializing research. 	<p>July 2015- Feb 2017</p>

<p>Nilai University (Malaysia)</p>	<p>Responsibilities:</p> <ul style="list-style-type: none"> To provide high level support for the postgraduate admissions process, including acting as the first point of contact for initial enquiries, providing advice and support to applicants throughout the admission process, ensuring the quick and accurate processing, liaising with The Graduate Engineering School (University Partners), making preparations for induction, assisting faculties, representing the Division to any University admission events and International Office as necessary for American Degree Transfer Program (Science & Engineering.) 	<p>Senior Lecturer Jan 2010- July 2015 6 ½ years</p>
<p>SEGi University (Malaysia)</p> <p>Collaboration with 2 UK</p> <p>1 Australia</p> <p>Degree Programs</p>	<p>Responsibilities:</p> <ul style="list-style-type: none"> To provide support for all aspects of program delivery including the production of timetables, preparation handbooks, preparation of module materials, evaluation, making exam arrangements, progress chasing on continuous assessment and producing results for Sheffield and Sunderland degree program <p>Sheffield University-UK (1+3, Program) <u>Responsibilities:</u></p> <ul style="list-style-type: none"> To develop and prepare teaching materials in areas allocated by the Head of Department. To deliver seminars, lectures and tutorials as scheduled and allocated. To participate in the development, administration and marking of examinations and other assessments. To maintain accurate records and monitoring students' Academic progress. To participate in the administration of the department's Program of study and other activities as requested. <p>Sunderland University-UK (3+0 Program) <u>Responsibilities:</u></p> <ul style="list-style-type: none"> Play a significant role in teaching and teaching development within UK University program; Initiation and development of course material; Course coordination; Play an active role in departmental development; Be a mentor to junior academic staff/tutor; Involvement in undergraduate project supervision; The Queensland University- Australia (3+0 Program) <p><u>Responsibilities:</u></p> <ul style="list-style-type: none"> Prepare and deliver lecture to students and conduct laboratory sessions Prepare, administer and grade examinations, laboratory assignment and reports To advise the students on course and academic matters and career decisions 	<p>Lecturer</p> <p>Dec 2007-Dec 2009</p> <p>2 years</p>
<p>The Otomotif College, Malaysia</p>	<p><u>Responsibilities:</u></p> <ul style="list-style-type: none"> To design, develop and produce learning and teaching material and deliver either across a range of modules or within Automotive area. To ensure the efficient and effective delivery of teaching program in accordance with in the college policy and procedures for Edith Cowan University Program, Australia. 	<p>Instructor & 1 ½ year July 2006-Aug 2007</p>

11. Research Grants-International/National

Research and Innovation – International (ETHIOPIA) :

1. Source: The Federal Democratic Republic of Ethiopia

Lead: Haftom G/gziabher; (30 January 2019). **Funding Amount:** 6455USD

Title Of the Research Project: Precision Grinding of Ti6Al4V alloy using the novel bondless diamond Grinding Wheels

Propose of Research Project: Research and Community Service Engagement-Mission in Proclamation and Mission in Action.

Institute: FTVETI, Ethio-china University, Addis Ababa **ETHIOPIA.**

Research and Development (Proposals/Incubation/Funding agencies-National (INDIA) :

2. Source: DST-NSTEDB: -Proposal submission (NewGen IEDC)

File No: **TPN/8002**; (24 February 2018). Funding Amount: **4,80,000** (INDIAN RUPEES)

Project/Proposed Idea -**Titles:**

- i. Manufacturing of Aluminum foam for Lithium Ion Battery pack (1,15,000/-INR)
- ii. Development of functionally graded material for aero-space (1, 15,000/-INR)
- iii. Belt conveyors for Star Hotels and Fast food centre (1,10,000/-INR)
- iv. Auxiliary Courier Service to support onlie market (1,40,000/-INR)

Scheme: NewGen Innovation & Entrepreneurship Development Centre

Institute: Vemu Institute of Technology, P.Kothakota-517112, Chittoor-Dist, Andhra Pradesh-State, **INDIA.**

3. Source: NIDHI: Technology Business Incubator-Proposal submission

Lead: Dr. Eriki Ananda Kumar; (19 January 2018). Funding Amount: **4,987.72 Lakhs** (INDIAN RUPEES)

Project Title: Implementation of Digital Atlas for Socio Economic Development of Rayalaseema Region in identified pockets under NIDHI-TBI Program

Scheme: NIDHI Technology Business Incubator- Ministry of Science & Technology Government of India

Institute: Vemu Institute of Technology, P.Kothakota-517112, Chittoor-Dist, Andhra Pradesh-State, **INDIA.**

4. Source: NITI AAYOG: AIC-Setting up of ATAL INCUBATION CENTER-Proposed & Applied

Lead: Dr. Eriki Ananda Kumar; (27 September 2017). Grand-in-aid: Setting up, Functions Impact and Incubatees.

Project/Proposed Idea -**Titles:**

- i. PERFROMANCE ANALYSIS OF PCM BASED LITHIUM ION BATTER PACK FOR HEV (20,00,000 -INR)
- ii. PRECESSION GRINDING OF TITANIUM ALLOY COMBUSTION CHAMBER FOR AERO SPACE APPLICATON (25,00,000-INR)

Scheme: NITI Aayog, Atal Innovation mission- Government of India.

Institute: Vemu Institute of Technology, P.Kothakota-517112, Chittoor-Dist, Andhra Pradesh-State, **INDIA.**

5. Source: DST-SERB: Proposal submission

File No: **EMR/2017/002532**; (29 July 2017). Funding Amount: **14,63,038.00** (INDIAN RUPEES)

Project Title: Machining of Grade-2 Ti6al-4v Alloy using Bondless grinding Wheel

Scheme: Extra Mural Research Funding (Individual Centric)-India Broad Area: Engineering Sciences.

Institute: Vemu Institute of Technology, P.Kothakota-517112, Chittoor-Dist, Andhra Pradesh-State, **INDIA.**

Appendix

PUBLICATIONS

International Journals

1. Arun R. Pathiran, **Eriki, A.K.**, T. Getachew, and Haftom G. Gziabher. (2019). Performance and predict the ball bearing faults using wavelet packet decomposition and ANFIS. *International Journal of Engineering, Science and Technology (IJEST)*.11(2), 33-47.
2. S. Sivabalan, G. Sathishkumar, R. Pugazhenthii, and **Eriki, A.K.**, (2018). Characterization of Multilayer Nano-coating of Piston Ring, *International Journal of Pure and Applied Mathematics (IJPAM)*, 118(20), 137-144.
3. Bhaskar, P., **Eriki, A.K.**, and Venkataramana, V.,(2018). Arduino based automated braking control system to enhance the safety at low light and long stressed drive condition, *International Journal of Modern Studies in Mechanical Engineering (IJMSME)*, 4(2), 1-5.
4. Konteti VNVN Rao, Ginka Ranga Janardhana , V. Venkataramana , and **Eriki,A.K.**,(2017). A Hybrid Multi Criteria Decision making using AHP-GRA for disrupted integrated supply chain.*International Journal of Current Engineering and Scientific Research (IJCESR)*. 4(12), 119-126.
5. M. Sathiesh.K, and **Eriki,A.K.**,(2017). Analysis and Optimum Design for steel moment resisting frame to seismic excitation using combination of ELF and NTH methods. *International Journal of Civil, Mechanical and Energy Science (IJCMES)*.3(2), 78-99.
6. **Eriki, A.K.**, S. Ganesh Kharote, and Pravin Munhe. (2016). Investigation of Machining Parameters in WEDM Zinc Coated Brass Wire using Taguchi Technique. *International Journal of Civil, Mechanical and Energy Science (IJCMES)*.2(3), 29-31.
7. Y.D., Kumar, Chandrasekaran, M., **Eriki, A.K.**, and Jayakiran Reddy. (2016). Optimization of Vibration of reduction by De-Coupling method in power train of trucks. *ARPN Journal of Engineering and Applied Sciences (ARPN)*.11(10), 6423-6427.
8. **Eriki, A.K.**, K.M. Abubacker., S.M., Walke, and Y.D., Kumar. (2016). Thermo Coupled Stress Analysis of Exhaust Manifold Assemblage using ABAQUS. *International Journal of Civil, Mechanical and Energy Science (IJCMES)*.2(1), 5-10.
9. **Eriki, A.K.**, V. Suresh Babu., Y.D., Kumar, and Lokanandham, R. (2015). Modal analysis and simulation on effect of correction factor (cf) in spur gear tooth profile. *International Journal of Engineering, Science and Technology (IJEST)*.7(4), 9-20.
10. **Eriki, A.K.**, K. Prahalada Rao and Johnrajan, A. (2015). LN₂ grinding of Ti6Al-4V using novel bondless diamond grinding wheel. *Applied Mechanics and Materials* 812-816. DOI 10.4028/www.scientific.net/AMM.754-755.812.
11. **Eriki, A.K.**, K. Prahalada Rao., G.N., Malleshwara Rao, and Sinha, A.K. (2015). Precision Grinding of Ti6Al4V using the Novel bondless diamond grinding wheel – A review, *International Journal of Emerging Trends in Engineering Research (IJETER)*. 3(1), 17-21.
12. Sinha, A.K., **Eriki, A.K.**, Lokanadham, R. and Babu, A.R. (2015). Vibrational Analysis of Propeller Shaft with Transfer Crack. *International Journal of Mechanical and Production Engineering (IJMPE)*. 3(3), 70-75.
13. Sinha, A.K., **Eriki, A.K.**, and Johnrajan, A. (2015). Flutter analysis of an Aircraft wing using computational fluid dynamics. *Applied Mechanics and Materials* 817-827. DOI 10.4028/www.scientific.net/AMM.754-755.817.
14. Kumar Yogeesh, D., Ramesh Babu, B.R. and **Eriki, A.K.** (2015). Modelling and Simulation of Shock Absorber for Noise Rectification Analysis. *Journal of Basic and Applied Research International, International Knowledge Press (IKP)*. 11(4), 206-216.
15. Sinha, A.K., Johnrajan, A. Kumar, Y.D. and **Eriki, A.K.** (2014). Analysis of thermal stresses contact problem of functional material involving frictional heating with and without *International Journal of Mechanical and Production Engineering (IJMPE)*. 2(12), 74-78.
16. **Eriki, A.K.**, K. Prahalada Rao., and G.N., Malleshwara Rao. (2014). Machining of Ti6Al4V alloy using novel bondless diamond layered grinding wheel for precision grinding. *International Journal of Mechanical and Production Engineering (IJMPE)*. 2(11),57-62.

17. Sinha, A.K., Johnrajan, A. and **Eriki, A.K.** (2014). A CFD analysis of centrifugal pump to improve discharge by varying blade geometry. *International Journal of Mechanical and Production Engineering (IJMPE)*. 2(11),15-19.
18. Babu, A.R., Prasad, G.A., Prasad, T.H. and **Eriki, A.K.** (2014). Simulation of new design muffler to reduce noise in exhaust system of SI engine. *International Journal of Mechanical and Production Engineering (IJMPE)*. 2(11),5-9
19. **Eriki, A.K.**, K. Prahalada Rao., G.N., Malleshwara Rao. and Babu, A.R. (2014). Effects of various parameters on CNMG turning insert in machining Ti6Al4V. *International Journal of Engineering and Technology Innovations (IJETI)*. 1(2), 1-5.
20. **Eriki, A.K.**, K. Prahalada Rao. and K.C. Varaprasad. (2014). Machinability Improvement in Turning of Titanium Alloy (gr2) using Cubic Boron Nitride (cBN) Cutting Tool, *Applied Mechanics and Materials*. 564, 507-512.
21. Babu, A.R., Prasad, G.A., Prasad, T.H. and **Eriki, A.K.** (2013). Fatty Acids Content from Several Microalgae Strains for Biodiesel Fuel. *International Journal of Mechanical Computational and Manufacturing Research (IJMCMR)*. 2(1), 28-32.
22. Francis, W.S., Imtiaz, A.C., **Eriki, A.K.**, and Johnrajan, A. (2012). Trapping efficiency of diesel particles through a square duct. *International Scholarly and Scientific Research & Innovation (ISSRI)*. *World Academy of Science, Engineering and Technology* 6(10), 669-674.
23. **Eriki, A.K.**, Ravichandra, R. and Mustafa, M.E. (2012). Spur Gear Crack Propagation Path Analysis using Finite Element Method. *International Multi Conference of Engineers and Computer Scientists (IMECS)*. 2, 1362-1367.
24. **Eriki, A.K.**, and Diwakar, R.V. (2012). Tool and Job Scheduling in a Tool Constrained Environment using Heuristic Approach. *International Journal of Mechanical Computational and Manufacturing Research (IJMCMR)*. 1(1), 13-19.
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1. *International Conference on Functional Materials (ICFM 2019) Sept. 04-06, 2019, Tohoku University, Japan.*
2. *2nd International Conference on Aeronautical, Aerospace and Mechanical Engineering (AAME 2019) July 26-28, 2019, Prague, Czech.*
3. *International Conference on Advanced Research in Mechanical Engineering (IC-ARME 2019) April 29-30, 2019, Bengaluru, Karnataka, India.*
4. *17th World Conference on Applied Science, Engineering and Technology (IFERP2019) March 15-16, 2019, Jakarta, Indonesia.*
5. *International Conference on Green Composite Materials (ICGCM 2016) July 16-18, 2016 Sarawak, Malaysia.*
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1. Paper No. CMSE1300 "Effects of Speed Parameters on Cold Rolling Process of Double Groove Ball-section Ring" 2nd July 2014.
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3. Paper No. CMSE2217 "Effect of Cryogenic Treatment on Microstructure and Micro-Mechanical properties of Cu61.32 Zn38.36 alloy" 15th September 2014.
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