

# curriculum vitae



**Dr. PALANIKUMAR. P**

## **Address for Communication:**

1/495, Kamaraj street,  
East Lakshmi Nager,  
Mudichur, west tambaram,  
Chennai 600048,  
Tamil Nadu, India.  
Mobile: +91-9841665070.

E-mail id: [palani161984@gmail.com](mailto:palani161984@gmail.com)

## **CAREER OBJECTIVE**

To utilize my knowledge to the fullest extent and to contribute to the development of the organization with the best of my abilities.

## **EDUCATIONAL QUALIFICATIONS**

COURSE	INSTITUTION	YEAR OF PASSING	AGGREGATE
Ph.D. Applied Mechanics and Hydraulics	National institute of technology Karnataka (NITK)	April - 2022	7.15 (CGPA)
M.E. (Internal Combustion Engineering)	University College of Engineering Anna University Villupuram.	May - 2014	7.3 (CGPA)
B.E. (Automobile Engineering)	MIT Campus, Anna University Chennai.	May - 2011	64 %
Diploma in Mechanical Engineering	Central Polytechnic College, Tharamani, Chennai	April - 2004	65 %
SSLC	Corporation Higher Secondary School, Guindy, Chennai.	April - 2001	75 %

## EDUCATIONAL PROJECTS

PROJECT	TITLE
(Ph.D.) Applied Mechanics and Hydraulics	Effect of sliding speed and rise in temperature at the contact interface on Coefficient of friction during full Sliding of SS304
M.E. (Internal Combustion Engineering)	Performance And Emission Characteristics of Camphor Blend with Diesel Using Diesel Engine
B.E. (Automobile Engineering)	Optimization Techniques Used in Vehicle Aerodynamics
Diploma in Mechanical Engineering	Semi-automatic fileing and cutting Machine

## JOURNAL AND BOOKS PUBLICATIONS

### International Journals

- P. Palanikumar**, A. H. Seikh , Md Abul Kalam and R.Venkatesh (2024) **Influences of black nickel coating thickness on thermal behaviour of fat plate solar collector: performance evaluation** journal of Thermal Analysis and Calorimetry <https://doi.org/10.1007/s10973-024-13177-6> in springer.
- P. Palanikumar** and M. Madhanagopal (2024) **“Prediction of wear volume and friction coefficients of SS304 alloy using grey taguchi based response surface methodology”** Materials Research Express DOI 10.1088/2053-1591/ad45bb
- P.Palanikumar** , R. Jayaprakash, S. Dinesh kumar, K.Deepa. G (2023)**“Tests on hertzian contacts of aluminum alloys Al6061 and aAl6082 with full sliding ”**, Journal of Data Acquisition and Processing , Pages pp. 28475-28487, ISSN: 1004-9037 Volume10,<https://sjcjycl.cn/> DOI: 10.5281/zenodo.7766177 (SCOPUS)
- S.Dineshkumar, **P.Palanikumar**, R.Praveen, T.Thilak and P.Kasinathapandian (2023) **“Infiance of Nano- Finishing proccesson fatigue life of Stainless steel 304”** Journal of Rivista italiana Difilosofia Junior ISSN:2037-4454 Vol,14 No:2
- R.Praveen kumar, **P.Palanikumar**, S.Dineshkumar, D . Saravanan and P.Kasinathapandian (2023) **“Study on salt Fog corrosion behaviour of ferrous and non-ferrous Alloys”** Journal of Rivista italiana Difilosofia Junior ISSN:2037-4445 Vol,14 No:2

6. S.Shahul Ameen, S.Santhilkumar , S.Dineshkumar, **P.Palanikumar** and P.Kasinathapandian (2023) “Study on salt Fog corrosion behaviour of ferrous and non-ferrous Alloys” Journal of Rivista italiana Difilosophia Junior ISSN:2037-4445 Vol,14 No:2

7 **P. Palanikumar**, N. Gnanasekaran, K. Subrahmanya, Vadivuchezhian Kaliveeran (2020)“ Effect of sliding speed and rise in temperature at the contact interface on coefficient of friction during full sliding of SS304 ”, Materials Today: Proceedings, Pages 1996-1999, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2019.09.046>. (SCOPUS INDEXED)

8 **P. Palanikumar**, N.Gnanasekaran, K. Subrahmanya, Vadivuchezhian Kaliveeran (2020) “Identification of Effective location of Thermocouples from the Contact Interface” Materials Today: Proceedings, Pages 2811-2814, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2019.12.373>. (SCOPUS INDEXED)

9 **P. Palanikumar**, N.Gnanasekaran, K. Subrahmanya, Vadivuchezhian Kaliveeran (2020) “Identification of Effective location of Thermocouples from the Contact Interface” Materials Today: Proceedings, Pages 2811-2814, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2019.12.373>. (SCOPUS INDEXED)

10 **P. Palanikumar** , E.Thambiran, D. Samuel Raj , Sugash. (2015) “A Study on Compression Ignition Internal Combustion Engine Operating on Diesel Blended With Pongamia Oil For Performance and Emission Characteristics ” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol,10 No;12 pp. 28475-28487 (SCOPUSINDEXED)

11 **P. Palanikumar**, N.Gnanasekaran, K. Subrahmanya, Vadivuchezhian Kaliveeran (2024) “Full sliding Experiments on Hertzian Contacts of Aluminium Alloys Al6061 and Al6082” Tribologia - Finnish Journal of Tribology. (UNDER REVIEW)

12 **P. Palanikumar**, N.Gnanasekaran, K. Subrahmanya, Vadivuchezhian Kaliveeran, Raveesh R.M, Vishvesvaran P (2024) “Effect of Sliding Speed, Normal Load on Evolution of Temperature at Contact Interface during Full Sliding of Stainless Steel (SS304) alloy”, The Journal of the Brazilian Society of Mechanical Sciences and Engineering. (UNDER REVIEW)

#### **International Conference Papers Published**

1. **Palani Kumar P**, Karthigairajan M, Deepa K, and Nandha Kumar P.V “**Friction Study on Al6061 and Al6082 Alloys**” International journal of multidisciplinary research in science, Engineering and Technology ISSN NO: 2582-7219 (<https://www.ijmrset.com/ICRDET-2024.php>)
2. Nandha Kumar P.V, Karthigairajan and **Palani Kumar P**, “**Smart Helmet System for Accident Prevention**” International journal of multidisciplinary research in science, Engineering and Technology ISSN NO: 2582-7219 (<https://www.ijmrset.com/ICRDET-2024.php>)
3. **Palanikumar P.**, Nagaraj M. K., Gnanasekaran N., Vadivuchezhian Kaliveeran “**Effect of sliding speed on Coefficient of Friction and wear of fully sliding Al6061 and Al6082 Alloy Hertzian contacts**”

International Conference on Advanced Materials and Manufacturing Processes for Strategic Sectors - ICAMPS 2018, October 27 - 29, 2018, Thiruvananthapuram, Kerala.

4. **Palanikumar P.**, Nagaraj M. K., Gnanasekaran N. “**Effect of frictional heat on coefficient of friction during full slip of Al6061-T6 Hertzian contacts**” at 7th International Engineering Symposium -IES 2018, March 7 - 9, 2018, **Kumamoto University, Japan.**
5. **Palanikumar P.** Nagaraj M.K., Gnanasekaran N., Gowtham S., Vadivuchezhian Kaliveeran “**Dry sliding experiment to understand the effect of sliding speed on coefficient of friction for SS304 and SS304L**” International Conference on Recent Advances in Material Chemistry- ICRAMC 2017, February 15 - 17, 2017, SRM University, Tamil Nadu.

## BOOKS PUBLICATIONS

1. **Palanikumar P.**, Thangavel, Deepa.K and Selva prabhu S K “**Electric Two and Three wheeler**” (2024) ISBN. NO ; **978 93 61 28 2010**
2. Selva prabhu S, Nandhakumar P.V, Karthigairajan M and **Palanikumar P.** “**New Generation Hybrid Vehicles**” ISBN. NO ; **978 93 60 76 736 5**

## TEACHING AND RESEARCH EXPERIENCE

1. **Organization Name** : Vel Tech university Avadi, Chennai,  
**Period** : June 2014 – June 2015  
**Designation** : Assistant Professor  
**Nature of Job** : Teaching and research  
**Subjects taught** : Engine tribology, Automotive safety, Automotive vehicle body engineering, Automotive engine system Alternative fuel for IC engine
2. **Organization Name** : **Centre for Aerospace Research**  
MIT, Anna  
University,  
Chennai – 44.  
**Period** : Feb. 2007 – Aug. 2012  
**Designation** : **Project Associate**  
**Nature of Job** : Material Characterization by using Instron machine – UTM.  
: Rich experience in  
Dynamic Mechanical

Analyzer. (DMA)

: Impact studies on  
compositematerials.

: Hands on experience in  
using sensors,  
thermocouples and strain  
gauges.

## INDUSTRY EXPERIENCE

- 3. Organization Name** : **Chennai Port Trust**  
Port, Chennai- 26.
- Period** : Feb. 2006 to Feb. 2007
- Designation** : **Apprentice Trainee**
- Nature of Training** : Exploring all work activities  
carried at following sections  
suchas Fork Lift Section,  
Diesel LocoEngines Section  
and Vehicles Maintenance  
Section.
- 4. Organization Name** : **RANE MADRAS PVT. LTD.**  
Velacheary, Chennai – 42.
- Period** : May 2005 to Nov. 2005.
- Nature of Job** : **Numerical control  
MachineOperator.**
- 5. Organization Name** : **Tec-Sol India**  
Gerugambakkam, Chennai – 42.
- Period** : November 2021 to Till date.
- Nature of Job** : **Assistant Quality Manager**

### ❖ TECHNICAL SKILLS

- ✓ Automobile Service and Testing
- ✓ Fabrication of research component and Testing  
equipmentin Mechanical Assembling

### ❖ COMPUTER SKILLS

- ✓ C- Language
- ✓ MATLAB
- ✓ ANSYS MECHANICAL

## PERSONAL DETAILS

Date of Birth : 1<sup>st</sup> June 1984

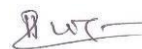
Age : 38  
Blood Group : O +  
Gender : Male  
Nationality : Indian  
Marital Status : Married  
Languages known : Tamil (Mother Tongue), English and kannada

Reference -1	Reference -2
Dr. Vadivuchezhian Kaliveeran Assistant Professor Department of Applied Mechanics and Hydraulics National Institute of Technology Karnataka Surathkal, Mangalore Pin: 575 025 Phone: 09444059864 Email: vadivuchezhian_k@yahoo.co.in	Dr. Subrahmanya Kundapura Assistant Professor, Department of Applied Mechanics and Hydraulics National Institute of Technology Karnataka Srinivasnagar (PO), Mangaluru – 575025 Karnataka Phone: 09448824343 Email: subrahmanyakundapura@nitk.edu.in subrahmanyakundapura@gmail.com

Reference -3	Reference -4
Dr. N. Gnanasekaran Assistant Professor, Department of Mechanical Engineering, National Institute of Technology Karnataka, Srinivas naga Surathkal, Mangalore – 575025, Karnataka, India. Email: ngs.iitm@gmail.com gnanasekaran@nitk.edu.in Phone +919940871337	Dr. S. Thanigiarasu Professor and Head Department of Aerospace Engineering Madras Institute of Technology Anna University, Chrompet, Chennai Phone :9444025895 E – mail : thanigaiarasus@annauniv.edu sthanigaiarasu@mitindia.edu

## DECLARATION

I hereby declare all the information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.



**Place: Chennai**

**Signature:**

**Date:**

**Name: P. Palanikumar**

