

PROFILE

1. NAME AND DESIGNATION : **Dr. Bino Prince Raja D**
Professor
Department of Aeronautical Engineering
S.J.C. Institute of Technology,
P.B. 20, B B Road,
Chickballapur-562101, Karnataka
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2. RESIDENTIAL ADDRESS : S-3, 7th Cross, Coffe board Layout,
Kempapura, Hebbal, Bangalore-560024

3. EMPLOYMENT RECORD (Starting from present position) :
Total Experience: 9.4 Years

UNIVERSITY/COLLEGE	DESIGNATION	DURATION	PERIOD
SJCIT	PROFESSOR	2.6 YEARS	MAY 2019- PRESENT
SJCIT	ASSISTANT PROFESSOR	08 MONTHS	JULY 2018- FEB 2019
SHA SHIB COLLEGE OF ENGG	ASSISTANT PROFESSOR	11 MONTHS	AUGUST 2017-JUNE 2018
SCTIT	ASSISTANT PROFESSOR	01 YEAR	AUGUST 2016- AUGUST 2017
NOORUL ISLAM UNIVERSITY	ASSISTANT PROFESSOR	3.1 YEARS	JULY 2013- AUGUST 2016
TAMIZHAN COLLEGE OF ENGG	LECTURER	01 YEAR	JULY 2010- JULY 2011

EDUCATIONAL QUALIFICATION:

Degree	Year	Specialization	University
Ph.D	2018	AERONAUTICAL ENGINEERING	NICHE
M.Tech	2013	AERONAUTICAL ENGINEERING	NOORUL ISLAM UNIVERSITY
B.E.	2010	AERONAUTICAL ENGINEERING	ANNA UNIVERSITY

MEMBERSHIP OF TECHNICAL/PROFESSIONAL BODIES :

- Member of Associate member in Institute of Engineers (AMIE)

TRAINING PROGRAMMES/SEMINARS/CONFERENCES CONDUCTED:

1. National Conference on “Recent Advances in Mechanical, Aeronautical, Aerospace Engineering & Basic sciences” on 28th August 2021 was conducted at department of Aeronautical Engineering, SJC Institute of Technology, Chickballapur

TRAINING PROGRAMMES/ SEMINARS/CONFERENCES ATTENDED:

- Bino Prince Raja D, Ramanan, Diyu Samuel, Ajith Raj** “Particle swarm optimization of friction stir welding process parameters for AA6061/Activated carbon composite”, *Proceeding of the 2nd International Conference on Aeronautics and Beyond” (ICAB August 2020)*” pp. 18, Malla Reddy college of Engineering and Technology, Hyderabad, Telangana, India.
- Bino Prince Raja D, Ramanan, Darwins AK, Ajith Raj** “Multi response optimization of FSW Process parameters of ZE42 Alloy using RSM Based Grey relational Analysis”, *Proceeding of the 2nd International Conference on Intelligent Manufacturing and Energy Sustainability” (ICIMES 2020)*” pp. 23, Malla Reddy college of Engineering and Technology, Hyderabad, Telangana, India.
- Bino Prince Raja D, Srinivas Arvind, Nikita Prashant Vinchure, Ramanan G, Diyu Samuel,** “Stress analysis of AL2014-T6 rivetted splice joint fuselage structure using finite element analysis”, *Proceeding of the International Conference on Advancements in Aeromechanical Materials for Manufacturing (ICAAMM July 2018)*” pp. 23 , MLR Institute of Technology, Hyderabad, Telangana, India.

- **Bino Prince Raja.D**, Sakthi Prasad, G. Ramanan,” Influence of nanoparticles on hybrid fiber reinforced polymer composites” *Proceedings of the International Conference on materials and manufacturing applications (IConAMMA August 2018)*, pp 138, AMRITA School of engineering, Bangalore, India.

- **Bino Prince Raja D**, Stanly Jones Retnam B and Antony Samuel Prabu, “Influence of nanoparticles on hybrid bamboo/glass fibre reinforced polymer matrix composites” *Proceedings of the IEEE Sponsored International Conference on Science, Technology, Engineering and Management (ICSTEM’23-24 March 2018)*, pp 154, Kalaignarkarunanidhi Institute of Technology,Kannampalayam, Coimbatore,India.

- **Bino Prince Raja.D**, G.Diju Samuel, S.N.Swetha, Ramanan.G, Ramachandran, “ Performance Improvement analysis of rotor induced vibration in Helicopter Structure”, *Proceedings of the RSRI conference on Materials and Computational Intelligence (RSRI CMCI September 2018)*, pp. 329, Shree Rayeshwar Institute of engineering & information science, Shiroda, Goa, India.

- **Bino Prince Raja D**, Stanly Jones Retnam and Edwin Raja Dhas J, " Mechanical Characterization of Woven bidirectional natural fiber reinforced polymer composites” *Proceedings of the IEEE Sponsored International Conference on Renewable Energy and Materials for Sustainability (ICREMS - 20-21 October 2016)*, pp. 308-312, NICHE, Kumaracoil, Kanyakumari, India.

- **Bino Prince Raja D**, Stanly Jones Retnam B, “Effect of Nanoparticles on tensile, flexural, impact and fatigue properties of FRP Polyester composites” *Proceedings of the International Conference on Advanced Innovations in Engineering and Technology (ICAIET-28th March 2018)*, pp. 17, Rohini College of Engineering and Technology, Kanyakumai, India

- **Bino Prince Raja D**, Stanly Jones Retnam B” Mechanical Characterization of Hybrid FRP Polyester matrix Composites” *Proceedings of the National Conference on Mechanical, Aeronautical and Civil Engineering (NCMAC- April 18)* pp 58-62, KCG College of Technology, Chennai-97.

- **Bino Prince Raja D**, " Turbine Blade Analysis of Gas Turbine Engine " *Proceedings of the National Conference on Emerging Trends in Automobile (CETA-12th April 2013)*, Noorul Islam University, pp. 03-06, Kumaracoil, India

- **Bino Prince Raja D**,” Characterization of nickel alloys on Turbine Blades in Gasoline engine” in Noorul Islam University” *Proceedings of the National level conference on Racing car Dynamics (CRDi2k14-2014)*, Noorul Islam University, pp. 07-09, Kumaracoil, India

PUBLICATIONS

International Journals:

- **Bino Prince Raja D**, Stanly Jones Retnam,” Effect of short fiber orientation on mechanical characterization of composite material-Hybrid fiber reinforced polymer matrix”, *Bulletin of material science*, (2019),42:111, DOI: doi.org/10.1007/s12034- 019-1813-5
- **Bino Prince Raja D**, Vettivel SC, Antony Samuel Prabhu G, “Influence of Nanoparticles on Thermal, Mechanical and 3D Analysis of Hybrid Bamboo/Glass Fibre-Reinforced Polymer Composites”, *Transaction of the Indian institute of metals”* 2021, DOI 10.1007/s12666-020-02111-7
- Manjunath CJ, Venkata Narayana, **Bino Prince Raja D**, Investigating the effect of Si₃N₄ reinforcement on the Morphological and Mechanical behavior of AA2219 alloy, 2021, *Silicon*, DOI: doi.org/10.1007/s12633-021-01015-5.
- **Bino Prince Raja D**, G Ramanan, “Numerical analysis of flow over single stage axial compressor cascade for different axial spacing using CFD", Progress Computational Fluid Dynamics (Under Review)
- **Bino Prince Raja D**, Vinay Temker, Santhosh Barradi, Rimal Isaac, Influence of Nanoparticles on Mechanical, Thermal, AFM and Morphological Characterization of Hybrid Ramie/Glass Fibre Reinforced Polymer Composites, Polymers and Polymer Composite (Under Review)
- **Bino Prince Raja.D**, Sakthi Prasad, G. Ramanan, “Influence of nanoparticles on hybrid fiber reinforced polymer composites”, *Materials Today: Proceedings*, 24 (2020), pp 1498-1507
- Manjunath CJ, Venkata Narayana, **Bino Prince Raja D**, **Rimal Isaac**, Tribological, Thermal and Corrosive Behaviour of Aluminium Alloy 2219 Reinforced by Si₃N₄ Nanosized Powder, 2021, *Silicon*, <https://doi.org/10.1007/s12633-021-01214-0>
- G. Ramanan, **Bino Prince Raja.D**, **K.Samuel** ,”Intelligent particle swarm optimization for quality machining in advanced manufacturing process”, *Materials Today: Proceeding*, 24 (2020), pp 510-518
- **Bino Prince Raja D**, G Ramanan, G Diju Samuel, “Computational Analysis of Blended Winglet model performance by varying Cant Angle”, *Journal of Computational and Theoretical Science*, Vol.16, April 2019, pp 467-471.

- **Bino Prince Raja D**, Srinivas Arvind, Nikita Prashant Vinchure, Rmanan G, Diju Samuel, “Stress analysis of AL2014-T6 rivetted splice joint fuselage structure using finite element analysis”, *IOP Conf.Series: Material science and Engineering*, Vol.455, Issue 012138, December 2018, pp. 1-8.
- **Bino Prince Raja D**, Stanly Jones Retnam, Mohini Shukla, “Analysis of Mechanical properties of hybrid bamboo/jute fiber reinforced vinyl ester composite materials ”, *International Journal of Mechanical Engineering and Technology*, Vol. 8, Issue 10, October 2017, pp.318–324.
- **Bino Prince Raja D**, Stanly Jones Retnam, Antony Samuel Prabu, Alagu Sundaram A, “Mechanical, Morphological and Thermal Characterization of Hybrid bamboo/glass fibre reinforced Polyester Composites”, *Rasayan Journal of Chemistry*, Vol.11, Issue 3, June 2018. pp.990-998.
- **Bino Prince Raja D**, Stanly Jones Retnam, M Ramachandran, "Analysis of mechanical properties of Glass and Carbon fiber reinforced polymer material ", *International Journal of Applied Engineering Research*, Vol.10, Issue 11, Nov 2015, pp.10387-10391.
- **Bino Prince Raja D**, Stanly Jones Retnam, Mohini Shukla, Likitha Thimmaraju Girijadevi, "Tensile, Flexural and Impact Properties of Glass fiber reinforced Polymer matrix composites", *International Journal of Mechanical Engineering and Technology*, Vol.8, Issue 11, Nov 2017, pp.467–475.
- G Diju Samuel, G Ramanan, **Bino Prince Raja D**, “Prediction of responses in FSW Processed Hybrid Composites using soft computing Technique”, *Journal of Computational and Theoretical Science*, Vol.16, April 2019, pp 463-466.
- Neela Rajan, **Bino Prince Raja D**, Ramanan.G, Muthu Sherin.S, “**Buckling** analysis of Stiffened panel under fuselage bending”, *International Journal of Engineering & Technology*”, Vol. 7, Issue 3.1, pp. 147-149.
- R.R. Neela Rajana, S.S. Pon Suthir Sajana , G. Ramanan and **Bino Prince Raja D**, “Experimental Wear Study between Piston Ring and Cylinder Liner Pair with Mahua Oil as Lubricant for Automobiles”, *International Journal of Vehicle Structures & Systems*, Vol.1, Issue 5, pp 519-521
- Likitha Thimmaraju Girijadevi, **Bino Prince Raja D**, Antony Samuel Prabu, “An Approach for Rational Design and Structural analysis of a Hexa-copter”, *International Journal of Mechanical and Production Engineering Research and Development*, Vol. 8, Issue 1, Feb 2018, pp.1179-1190.
- **Bino Prince Raja D**, B. Stanly Jones Retnam, J.K Bhushan, Edwin Raja Dhas. J, “Experimental Investigation of Hybrid bamboo/glass polyester composites”, *Elixir Material Science*”, Vol.119, June 2018, pp. 51189-51192.

- **Bino Prince Raja D**, Stanly Jones Retnam, Edwin Raja Dhas J,"Mechanical Characterization of Woven bidirectional natural fiber reinforced polymer composites", *International Journal of Future Revolution in Computer Science and Communication Engineering*, Volume 3, Issue 9, Sep 2017.pp. 134-136.
- **Bino Prince Raja D**, Stanly Jones Retnam, "Effect of Nanoparticles on tensile, flexural, impact and fatigue properties of FRP Polyester composites" , *International Journal of Innovative Works in Engineering and Technology*, Vol. 4, Issue 4, Feb 2018, pp.47-52.

International Conferences:

- **Bino Prince Raja D, Ramanan, Diyu Samuel, Ajith Raj** "Particle swarm optimization of friction stir welding process parameters for AA6061/Activated carbon composite", *Proceeding of the 2nd International Conference on Aeronautics and Beyond* (ICAB August 2020)" pp. 18, Malla Reddy college of Engineering and Technology, Hyderabad, Telangana, India.
- **Bino Prince Raja D, Ramanan, Darwins AK, Ajith Raj** "Multi response optimization of FSW Process parameters of ZE42 Alloy using RSM Based Grey relational Analysis", *Proceeding of the 2nd International Conference on Intelligent Manufacturing and Energy Sustainability* (ICIMES 2020)" pp. 23, Malla Reddy college of Engineering and Technology, Hyderabad, Telangana, India.
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- **Bino Prince Raja.D**, G.Diyu Samuel, S.N.Swetha, Ramanan.G, Ramachandran, " Performance Improvement analysis of rotor induced vibration in Helicopter Structure", *Proceedings of the RSRI conference on Materials and Computational Intelligence (RSRI CMCI September 2018)*, pp. 329, Shree Rayeshwar Institute of engineering & information science, Shiroda, Goa, India.

- **Bino Prince Raja D**, Stanly Jones Retnam and Edwin Raja Dhas J, " Mechanical Characterization of Woven bidirectional natural fiber reinforced polymer composites" Proceedings of the IEEE Sponsored *International Conference on Renewable Energy and Materials for Sustainability* (ICREMS - 20-21 October 2016), pp. 308-312, NICHE, Kumaracoil, Kanyakumari, India.
- **Bino Prince Raja D**, Stanly Jones Retnam B, "Effect of Nanoparticles on tensile, flexural, impact and fatigue properties of FRP Polyester composites" *Proceedings of the International Conference on Advanced Innovations in Engineering and Technology (ICAIET-28th March 2018)*, pp. 17, Rohini College of Engineering and Technology, Kanyakumai, India
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- **Bino Prince Raja D**," Characterization of nickel alloys on Turbine Blades in Gasoline engine" in Noorul Islam University" *Proceedings of the National level conference on Racing car Dynamics (CRDi2k14-2014)*, Noorul Islam University, pp. 07-09, Kumaracoil, India

National Conferences:

- Attended AICTE sponsored 5 days Faculty Development Program (FDP) held at Hindustan, Bangalore from 14th Dec to 19th Dec 2020.
- Attended AICTE (ATAL) sponsored 5 days Faculty Development Program (FDP) held at MLR Institute of Technology, Hyderabad from 12th Oct to 16th Oct 2020.
- Attended 5 days Faculty Development Program (FDP) held at Karunya University, Coimbatore from 27th July to 31st July 2020.
- Attended and participated in 51 webinars and received certificates
- Attended Faculty Development Program (FDP) held at SJCIT, Bangalore from 28th Jan to 01st Feb 2019.
- Presented a Paper “Impacts of Nanotechnology in materials in aviation” in Excel College of Engineering and Technology, Namakal district, Tamilnadu
- Participated a national seminar on “Latest Technologies in Rocket engine” in Lord Jegannath of College of Engineering and Technology, Thoppur, Kanyakumari, Tamilnadu
- Presented a paper on “Measurement of Composite Material on polymer materials” has been accepted on National Conference in Tamizhan Engineering College, Kanyakumari, Tamilnadu.

AREAS OF INTEREST :

- AEROSPACE STRUCTURES AND MATERIALS

AREAS IN WHICH EXPERT LECTURERS CAN BE DELIVERED :

- RESEARCH METHODOLOGY
- IPR AND IP MANAGEMENT
- COMPOSITE MATERIALS IN AEROSPACE INDUSTRY

MAJOR ACHIEVEMENTS:

- Patent Published “Structural Health Monitoring for the turbine blades of the gas turbine engine by embedded sensors” Application No: 2021102090, Australia, April 2021 **(GRANTED)**
- Patent Published (11/09/2020), “Method of wear surface roughness and tensile failure analysis of hybrid composites by online acoustic emission “**Application No. 202041037313**, India, October 2020
- Patent Filled (22-02-2021), “Obtaining A Self-Healing CFRP By Microcapsules And Vascular Network For Aerospace Application”, **Application No. 202141007313**, RQ No. R20214005725, February 2021

AWARDS/HONORS:

- Received Appreciation certificate for delivering lecture at SVCE, Bangalore
- Received Appreciation certificate for Reviewing papers in the conference conducted by MLRIT, Hyderabad
- Received Appreciation for Reviewing papers in the conference conducted by NMIT, Bangalore

ADDITIONAL RESPONSIBILITIES TO THE DEPARTMENT /COLLEGE:

- Convener-Institutions Innovation Council (IIC)
- Convener- National Innovation and Startup Policy (NISP)
- Innovation Ambassador – MHRD’s Entrepreneurship Development Program
- NBA Coordinator
- R & D Activity
- VTU coordinator
- Workshops & Seminars Conduction

GUIDANCE TO Ph.D.CANDIDATES:

Sl. No	Name of the Candidate	University	Year of Registration	Title	Status
1	CHANDRIKA MB	VTU	2021	ADVANCED AEROSPACE MATERIALS	REGISTERED

RECOGNIZED Ph.D GUIDE IN THE FOLLOWING UNIVERSITIES: VTU

(BINO PRINCE RAJA.D)