

# A.DYSON BRUNO

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## CAREER OBJECTIVE

To attain a challenging position in an organization, where I can put my best efforts to utilize and enhance my technical and professional horizon to play a vital role for the betterment of the organization.

## EDUCATION

- Pursuing Ph.D in Part time- Anna University, Chennai
- M.E -Engineering Design, (2010-12 CGPA-7.63) Kongu Engineering college, Erode
- B.E - Mechanical Engineering, (2006-2010 with 71%) Erode Sengunthar Engineering College, Erode.
- HSC - John Paul Higher Secondary School (2006 with 70%) Dindigul.
- SSLC - John Paul Higher Secondary School (2004 with 85%) Dindigul.

## ACADEMIC HONORS AND AWARDS

- Recipient of Innovative Professional Awards from the Society of Professional Engineers (SPE) on 28<sup>th</sup> Aug, 2016.

## ACADEMIC AND TEACHING EXPERIENCE

- Working as Assistant Professor in PSNA College of Engineering & Technology since June 2012 (12 Years 03months of Experience)

## COURSES HANDLED

### UNDERGRADUATE

- Engineering Graphics
- Engineering Mechanics
- Strength of Materials
- Fluid Mechanics
- Manufacturing Technology-II
- Unconventional Machining Processes
- Design of Machine Elements and
- Applied Hydraulics & Pneumatics

### POSTGRADUATE

- Mechanisms Design and Simulation

## PROJECT PROFILE

- Investigations on the Properties of Sand Mould Casting Process Using Flyash. This project has been selected by *Tamilnadu State Council for Science and Technology*, approved and sponsored this project.
- Comparison of Vibration Characteristics of Hybrid Composite Plates with Magnesium Plates.
- Design and Fabrication of Universal Solar Drier.

## **PUBLICATION DETAILS**

### **JOURNALS**

- Purusothaman Mani, Sivaprakash Vetrivel, A Dyson Bruno, Subramani Sekar, Martin L, “Fabrication of TiO<sub>2</sub> nanotubes with effect of water and in-situ condition for biomedical application”, Environmental Quality Management, 2023.
- Rajaganapathy C, Rajamurugan TV, A Dyson Bruno, Murugapoopathi S, Armstrong M, “A study on tribological behavior of rice bran and karanja oil-based TiO<sub>2</sub> nano bio-fluids”, Materials Today: Proceedings, 57125-129, 2022.
- C Rajaganapathy; D Vasudevan, A Dyson Bruno, T Rajkumar, “Tribological and mechanical characteristics of AA6082/TiC/WC-based aluminium composites in dry and wet conditions” Materials Today: Proceedings, Volume 37, Page No: 1133-113, 2021.
- Jotiram Gujar, Anantkumar, Rohokale, Milind Shivaji, A Dyson Bruno, “Energy Valuation of Hydroxyalkanoates as Biopolymer Mediated Lignin Degradation of Lignocellulose Waste”, European Journal of Molecular & Clinical Medicine 2020.
- P. Vijay, S. Vinobalaji, A. Dyson Bruno, “Automatic Side Stand Retrieving System for Two Wheelers, International Journal of Engineering Research & Technology, Volume 7, Issue 06 Pg No:1-3, 2019.
- A.Dyson Bruno, S.Hari Vignesh, M.Vasundara, “Finite Element Analysis and Numerical Simulation of Composite Laminates”, International Journal of Recent Technology and Engineering, 2019.
- Dyson Bruno A, Hari Vignesh S, “Experimental and analytical investigations on passive viscoelastic constrained layer damping (VCLD) for steel plates”, International Journal of Mechanical Engineering and Technology, 911,568-573, 2018.
- Nagaraja. M , A Dyson Bruno, Anand Kumar.P, Gowtham.G, Hariharan.N, Jaya Srinath.N, “Performance testing of a Regenerative braking systems”, International Journal of Engineering Research & Technology, 6445383, 2018.
- M. Eswaran, A. Dyson Bruno, P. Emmanuel Nicholas, “Aerodynamic Design and Analysis of Horizontal Axis Wind Turbine (HAWT) Blades Using CFD” International Journal of Engineering Research & Technology, Volume 5, Issue 07 Pg No:1-4, 2017.
- A.Dyson Bruno, M.Baskaran, “Vibration Analysis on Passive Viscoelastic Constrained Layer Damping for Plates”, MASK International Journal of Science and Technology, Vol. 1, No. 4, Page No: 35-37, Dec 2016.

- L.Kavin Rajkumar, A.Dyson Bruno, D.Vasudevan, “Optimization of EDM Parameters for Tungsten Carbide Using Grey Relational Analysis”, International Journal of Applied Engineering Research, Vol.10 No. 39, Page No: 29801-29805, 2015.
- L.Kavin Rajkumar, A.Dyson Bruno, “Design and Analysis of Shear Stress Reduction in aero-fin holed spur gears”, International Journal of Engineering Research, Science & Technology, Vol.3 No. 3, Page No: 39-45, Aug 2014.
- A.Dyson Bruno, M.Baskaran, “Analysing the Mechanical Properties of Natural Fiber Reinforced Polymer Composites Using FEA”, International Journal of Engineering Sciences & Research Technology, Vol No. 3, Page no: 269-282, Jan 2014.

#### CONFERENCE

Sl · N O	Name of the Conferences	Name of the Institution	Title of the paper	Year
1	Advances and Challenges in Mechanical Engineering - ACME 2010	ESEC	Insvestigations on the Properties of sand mould casting process using Fly Ash	25 th,26 th March, 2010
2	Tamil Nadu State Council for Science & Technology	TN Government	Insvestigations on the Properties of sand mould casting process using Fly Ash	2009-10
3	Universal Innovations in Mechanical Engineering (UIME 2011)	K.S.R College of Engineering	Insvestigations on the Properties of sand mould casting process using Fly Ash	11th Feb, 2011
4	Advances in Mechanical Sciences AIMS2012	Fatima Michael College of Engg., & Technology	Improvement of Passive Visco Elastic Constrained Layer Damping for Cantilever Beam & Plates	24 th March, 2012
5	International Conference on Advances in Contruaction,Manufacturing & Automation Research(INCACMA 2012)	Kongu Engineering College	Passive Visco Elastic Constrained Layer Damping for Cantilever Beam & Plates	30th & 31 st March, 2012
6	International Conference on Science, Engineering & technology (SET)	VIT University , Vellore	Experimental & Analytical Investigations on Passive Visco Elastic Constrained Layer Damping	3rd & 4th May, 2012
7	Recent Trends in Mechanical Engineering NCRTE 2013	Christian College of Engineering & Techology	Passive viscoelastic constrained layer damping for beams and plates	2013
8	International Conference on Future Trends in Engineering and Technology	PSNA CET	Optimization of EDM Parameters for Tungsten Carbide using Grey Relational Analysis	2015

**WORKSHOPS/SEMINARS/FDP ATTENDED**

S. No	Name of the Workshops/Seminars/Training/FDP	Name of the Institutions	No. of Days	Year
1	Foundation in Mechanical CADD	CADD Training Services, Erode	3 Months	23rd April 2009
2	Thermal Systems Modelling Using Matlab & CFD Analysis Using Fluent	Kongu Engineering College	3 Days	24 th to 25 th Jan 2012
3	KOM- FTP	PSNA CET	7 days	4th to 10th June 2012
4	Instrumentation design & Delivery Systems	PSNA CET	5 days	25 <sup>th</sup> Feb to 1 <sup>st</sup> March, 2013
5	Design of Experiments and Reliability in Engineering Optimization	IIT-Madas	6 Days	19th to 24th Dec, 2014
6	ANSYS & CFD Training	PSNA CET	3 days	01 August 2015
7	CATIA V5-6R2016	PSNA CET	3Days	2nd to 4th May 2016
8	Special technical Skills in Structural and Object Oriented Programming	PSNA CET	3 Days	4th to 6th Jan 2017

**PAPER PUBLICATION/EVENTS DETAILS**

S. No	Programme Name	EVENT	Name of the Instituion	Date	Year
1	Excapade 2008	CAD QUEST	Park College of Engineering & Technology, Cbe	29th,30th Sep	2008
2	Excapade 2008	Project Presentation	Park College of Engineering & Technology, Cbe	29th,30th Sep	2008
3	Plasma 2009	Quiz (Second Prize)	Paavai Engineering College, Namakkal	30th Sep	2009
4	Plasma 2009	Paper Presentation	Paavai Engineering College, Namakkal	30th Sep	2009
5	Yantram 2009	Paper Presentation	Dr. M.G.R. Educational & Research Institute University	09th April	2009
6	Dynamech 2009	Paper Presentation	P.S.R Engineering College	11th March	2009
7	Mechofest 2009	Paper Presentation	SSM College of Engineering,	27th March	2009
8	Zaplon 2009	Project Presentation	Adhiyamaan College of Engineering, Hosur	2nd& 3rd April	2009
9	Sports day 2007-08	Chess Competition (II Place)	ESEC		2007-08

## **PERSONAL PROFILE**

Date of Birth : 13<sup>th</sup> February 1989  
Age : 34 Years  
Father's Name : M. Arulappan  
Gender : Male  
Nationality : Indian  
Marital Status : Married  
Languages Known: Tamil, English  
Hobbies : Solving Suduko & Puzzles

## **REFERENCE**

1. Dr. G. R. Kannan Ph.D.,  
Professor,  
Department of Mechanical Engineering,  
PSNA College of Engineering & Tech.,  
Dindigul.
2. Dr. K. M. Arun Raja ME., Ph.D,  
Dean R&D and COE,  
Department of Mechanical Engineering,  
Sri Venkateshwara Institute of Technology,  
Coimbatore.

## **DECLARATION**

I hereby declare that all the information stated above are true, correct and complete to the best of my knowledge

Place: Dindigul  
Date : 10.05.2024

(A.DYSON BRUNO)