Dr. S. KARTHIKEYAN, B.E., M.Tech., Ph.D. 32, Yesodhalllam, D.Nagar, Thiruverumbur, Trichy-620013. Mobile: 9976048175 E-mail: drkarthikeyan.shanmugam@gmail.com



Objective:

To associate myself with an organization that provides a challenging job and an opportunity to keep in track with the latest technologies and development commensurating with my technical knowledge and academic qualification.

Profile:

- > Completedfull time**PhD** in Department of Production Engineering, **NIT Trichy**
- > Having 4 yrs 6 mths of experience as **Principal** in an Engineering College
- > Total 17yrs of experience in various positions of Teaching Field
- > Having 2 yrs 4 months of industrial experience in Production and Quality Field

Sl. No.	Educational Qualification	Specialization / Branch	Institution	Year of Passing	Percentage	
1	Ph.D.	Production Engineering	National Institute of Technology, Tiruchirappalli, Tamil Nadu	2015	-	
2	M.Tech	Manufacturing Technology	National Institute of Technology, Tiruchirappalli, Tamil Nadu	2007	CGPA-8.95 First Class With Distinction	
3	B.E	Mechanical Engineering	Arulmigu Meenakshi Amman College of Engineering, Kanchipuram, Tamil Nadu	1997	71.87% First Class	

EDUCATIONAL QUALIFICATION:

Thesis Title:

Ph.D. – Solving Flexible Job shop Scheduling Problems using Nature Inspired Metaheuristic Optimization Approach

> M.Tech

Phase-I –Optimization of machining parameters for multi-performance characteristics in turning using grey relational analysis

Phase-II –Optimization of ECM machining parameters for Aluminum Composites using multiple regression and ANN models

PROFESSIONAL EXPERIENCE:

Sl.	Organization	Designation	Period		Exp. in	Nature
No.	Organization	Designation	From	То	Y rs	of Job
1	Indra Ganesan College of Engineerig	Professor & Vice Principal	31-05-2023	Till date		Teaching
2		Principal	03.07.2018	06.01.2023		Teaching
	Sudharsan Engineering College, Pudukkottai	Professor & Head	16.06.2015	02.07.2018	7 Yrs 10 mths	Teaching
		Associate Professor	25.02.2015	15.06.2015		Teaching
3	Mookambigai College of Engineering, Trichy	Assistant Professor	20.01.2011	30.07.2011	6 mths	Teaching
4	ETLA Ltd, Singapore	Assistant Engineer	02.06.2008	25.10.2010	2 Yrs 4 mths	Industry
5	Mookambigai College	Assistant Professor	01.01.2008	08.05.2008	9 Yrs	Teaching
	of Engineering, Trichy	Lecturer	19.08.1998	31.12.2007	8 mths	Teaching

ROLES & RESPONSIBILITIES:

Administrative Responsibilities: Head – Department of Mechanical Engineering,

Vice Principal

Principal

- Directing and Controlling nearly 600 students and 85 staff members as a head of the institution.
- > Associated with AICTE approval & Anna University Affiliation process of the institution.
- Strengthening the academic delivering mechanism to enhance students' academic performance.
- > Implementation of cost reduction and waste reduction methods in administrative work.
- > Formulation of Admission strategies to improve student admission.
- Convened student activities like symposium and workshops as head of the mechanical engineering department.
- > Maintained academic discipline in the department.
- > Conducted University Examination as a Chief Superintendent.
- ➢ Worked for Accreditation.

CONFERENCES:

- Application of Taguchi method in the Optimization of Cutting parameters for surface roughness in turning AISI 4140 steel - UGC Sponsored National Conference on Recent Developments in Production and Operations Management, Annamalai University.
- Fabrication of Micro machines using LIGA process National Conference on Recent Advancement in Mechanical Engineering, K.S.Rangasamy College of Technology.
- Development of Multi-Objective Optimization Models for ECM Parameters on Machining Al-10%Sic Composites - National Conference CITTMEP2008 – A.V.C College of Engineering.
- A hybrid firefly algorithm for solving bi-criteria flexible job shop scheduling problem -International Conference on Industrial Engineering ICIE2013 – SardarVallabhbhai National Institute of Technology, Surat, Nov-2013.
- A hybrid discrete firefly algorithm for flexible job shop scheduling problem with maintenance activities, *International Conference on Advances in Industrial Engineering ICIEA2014, Anna University, Chennai, January 2014.*

WORKSHOPS ATTENDED:

- Workshopon Emerging Trends in Thermal Power Plant Design conducted by Shanmuga College of Engineering, Thanjavur.
- Workshop on Computer Aided Manufacturing conducted by National Institute of Technology, Trichy.
- Workshop on Recent Trends in Manufacturing and Materials conducted by National Institute of Technology, Trichy.
- Workshop on Recent Trends in Supply Chain Management conducted by National Institute of Technology, Trichy.
- Workshop on Quality Engineering in Manufacturing conducted by National Institute of Technology, Trichy.
- Two day workshop on LABVIEW software conducted by K.S.Rangasamy College of Technology.

PUBLICATIONS:

- P. Asokan, R. Jeyapaul, S. Karthikeyan, "Optimization of machining parameters for multiple performance characteristics in turning using grey relational analysis", *Journal of Manufacturing Technology and Research*, 3, (3 & 4), 46-51, 2006.
- S. Karthikeyan, P. Asokan, S. Nickolas, "A hybrid firefly algorithm for multi-objective flexible job shop scheduling problems", *International Journal of Production Technology and Management Research*, 3 (2); 89-98, 2012.
- S. Karthikeyan, P. Asokan, S. Nickolas, Tom Page, "Solving flexible job shop scheduling problem using hybrid particle swarm optimization algorithm and data mining", *International Journal of Manufacturing Technology and Management*, 26 (1/2/3/4); 81-103, 2012.
- S. Karthikeyan, P. Asokan, S. Nickolas, "A hybrid discrete firefly algorithm for solving multi-objective flexible job shop scheduling problem with limited resource constraints", *International Journal of Advanced Manufacturing Technology*, 72 (9-12); 1567-1579, 2014.
- S. Karthikeyan, P. Asokan, M. Chandrasekaran, "A hybrid discrete firefly algorithm for multi-objective flexible job shop scheduling problems with maintenance activity", *Applied Mechanics and Materials*, 575; 922-925, 2014.
- S. Karthikeyan, P. Asokan, S. Nickolas, Tom Page, "A hybrid discrete firefly algorithm for solving multi-objective flexible job shop scheduling problems", *International Journal of Bio Inspired Computation*. 7 (6); 386-401, 2015

SUBJECTS TAUGHT

- Engineering Thermodynamics
- ➢ Thermal Engineering
- Power plant engineering
- Engineering graphics
- Industrial robotics
- Production Planning and Control

- Analysis and Control of Manufacturing Systems
- Integrated Material Management

RESEARCH INTEREST

- Flexible Manufacturing System
- Operations Management
- Scheduling
- Optimization

Skill Set:

Modeling	: Pro/E Wildfire 2.0, Autodesk Inventor
Application Package	: MS Word, Excel

Strengths:

- Having an ability to handle pressurized situations.
- I believe in achieving results against all odds
- I can easily create good rapport with the workers.
- Hard worker with high energy level.

Membership in Professional Bodies: Life Member in ISTE

Recognized Anna University Research Supervisor Ref. No. 2720089

Personal Information:

Date of Birth and Age	:	28.07.1976
Nationality	:	Indian
Father's Name	:	P. Shanmugam
Languages Known	:	Tamil, English
Passport No	:	G7900121
Marital Status	:	Married
Permanent address	:	No32, YesodhaIllam D.Nagar, Thiruverumbur, Tiruchirappalli-620013 Tamilnadu (India)

Reference:

 Dr.P.Asokan Professor, Department of Production Engineering, National Institute of Technology Trichy-620015 Mobile: 9443112380 Email: asokan@nitt.edu

 Dr.C.Sathiyanarayanan HoD/Department of Production Engineering, National Institute of Technology Trichy-620015 Mobile: 9865027102 Email: csathiya@nitt.edu

Declaration:

I certify that the above information given by me is true to the best of my knowledge.

Place : Trichy

Date : 23-09-2023

Karthikeyan. S