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Qualification	B.E. Mechanical Engineering, 1993-1997 (Full-Time), Bharathiyar University, Coimbatore, M.E. Engineering Design, 2004-2006 (Full-Time), Anna University, Chennai. Ph.D. Design and Vibration, 2017-2022 (Full-Time), Anna University, Chennai.
Experience in MSAJCE	Teaching- Process Planning and Cost Estimation, Dynamics of Machines and Hydraulics and Pneumatics.
Other Activities in MSAJCE	IDEA LAB- In charge. EDC- Projects- coordinator. Programme- coordinator. Paper Publications – coordinator.
Experience prior to MSAJCE	16 years in academics
Institutions worked previously	Sapthagiri College of Engineering, Dharmapuri, Dayananda Sagar College of Engineering, Bangalore. VelTech Multitech Dr RR Dr SR Engineering College, Chennai, SASTRA University, Thanjavore, VelTech Hightech Dr RR Dr SR Engineering College, Chennai, BHARATH University, Chennai
Research Interests	Machine Design, Vibrations, Materials Science, CFD
Research Activities	Reviewer in Journal of Magnesium and Alloys- Elsevier . Reviewer in SAGE open- Journal – SAGE . Reviewer in Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE) – Springer . Reviewer in Journal of Mechanical Science and Technology (JMST) - Springer
Research Output	12 publications in journals ; 15 presentations in Conferences
Research Profile	https://scholar.google.co.in/citations?user=oGct7o4AAAAJ&hl=en
As a Person	Interested in Indian history, Sports and Reading books

Publications

International Journals

- **Saravanan A¹**, Suresh P², Kumaravel P³ and Aravindh Balaji S⁴, “Investigation of Bending, Sound Absorption and Damping Properties of AZ91D-Swivel Plate”, *Advances in Materials Science and Engineering*. 2020, Vol. 2020, 1-13. **Hindawi**. [S.C. Index, Impact factor: 1.799, A.U- Annex.]
- **Saravanan A¹**, Suresh P² and Sudharsan G³, “Magnesium Alloys- A Review of Applications”, *Materials and Technology*. 2019, Vol 53, 881-890. **MIT**. [S.C. Index, Impact factor: 0.71, A.U- Annex]
- **Saravanan A¹**, Suresh P², Sudharsan G³, Kumaravel P⁴ and Gobi Krishnan Udayakumar⁵, “Investigation of Fatigue Life and Dynamic Behavior of Magnesium Alloy of an Automobile Connecting Rod”, *Caribbean Journal of Science*, 2019, Vol 53 (2), 1576-1596. [S.C. Index, Impact factor: 0.2, A.U- Annex]
- **Saravanan A¹**, Suresh P² and Salai Sarkunan S P³, “Performance study on High Strength Extruded Magnesium Alloy Van Frame using FEA”, *Strength of Materials*. **Springer**. [S.C. Index, I.F:0.7, A.U. Annex, Paper Accepted]
- **Saravanan A¹**, Suresh P², Aravindh Balaji S³ and Kumaravel P⁴, “Deformation and Stress Analysis of a Fuel Tank under Static Loading Condition”, (**ICAMMM 20**), *Materials Today Proceedings*. **Elsevier**, Vol. 39, 2021, 378-389. [**Scopus Index**, Impact factor: 0.57]
- **Saravanan A¹** and Suresh P², “Finite element analysis of bending and dynamic response of a power transmission spur gear”, *Lecture Notes in Mechanical Engineering, Advances in Manufacturing Technology (ICAMT’2018)*, **Springer**, 2019, 511-525. [**Scopus Indexed**, Impact factor: 0.37]
- Duraisivam S¹, Suresh P², **Saravanan A³** and Jamuna E⁴, “Static, Fatigue and Dynamic Analysis of Automobile Torque Arm Using FEM”, **ICSMMT 2021-AIP Conference Proceedings**. 2021. Vol. 2408(1). [**Scopus Indexed**, Impact factor: 0.40]
- Sudharsan G³, Suresh P², **Saravanan A³** and Arvindha Balaji S⁴, “Design and Analysis of Compliant Micro gripper– A Review”, (**ICRTMME2019**), **AIP Conference Proceedings**. 2020, Vol.2283 [**Scopus Index**, Imp. factor: 0.40]
- **Saravanan A¹** and Suresh P², “Investigation of diesel tank pressure using numerical and analytical methods”, *International Journal of Mechanical Engineering and Technology (IJMET)*, 2017, Vol. 8, No. 12, 407-416. [**Scopus Indexed**, Impact factor: 9.226]
- **Saravanan A¹**, Suresh P², Sudharsan G³ and Suresh V⁴, “Static Analysis and Weight Reduction of Aluminum Casting Alloy Connecting Rod Using Finite Element Method”, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 2018, Vol. 8, No. 3, 507-518. [**Scopus Indexed**, Impact factor: 8.87]
- **Saravanan A¹**, Suresh P², Arthanari V³, Nethaji S⁴ and Muthukumar S⁵, “Design and Analysis of Trestle Hydraulic Jack Using FEA”, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 2018, Vol. 8, No. 6, 437-448. [**Scopus Indexed**, Impact factor: 8.87]
- Sudharsan G³, Suresh P², Selvaraj³ and **Saravanan A⁴**, “Experimental study on Micro Electrochemical machining of SS316L using teaching learning-based optimization”, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 2020. Vol. 10, no. 3, pp-1051-1060. [**Scopus Indexed**, Impact factor: 8.87]
- **Saravanan A¹**, Suresh P², Arvindha Balaji S³ and Sudharsan G⁴, “Optimization of Heavy-duty Three-Wheeler Front Suspension Coil Spring Using FEA”, **ICRTCCNT’19 - SSRN Proceedings**. **Elsevier** [**Google Scholar Indexed**, Impact factor: 0.19].

International Conference

- **Analysis of connecting rod using HSLA steel 4140 and AL S3 casting alloy material using FEM** in the International Conference **ICABCMS’17** conducted by the Department of Mechanical Engineering, Selvam college of Technology, Namakkal, Salem.
- **Finite Element Analysis of Bending and Dynamic Response of a Power Transmission Spur Gear** in the International Conference **ICAMT’18** conducted by the Department of Mechanical Engineering, Chennai

Institute of Technology, Chennai.

- **Investigation of Fatigue Life and Dynamic Behavior of Magnesium Alloy of an Automobile Connecting Rod** in the International Conference **ICTAME'18** conducted by the Department of Mechanical Engineering, AMET University, Chennai.
- **Experimental Study on Micro ECM of 316L using Teaching Learning Based Optimization** in the International Conference **ICAMPC-2019** conducted by the Department of Mechatronics, Mechanical, Automobile and Aeronautical Engineering, Bannari Amman Institute of Technology, Erode.
- **Optimization of Heavy-duty Three-Wheeler Front Suspension Coil Spring Using FEA** in the International Conference **ICRTCCNT'19** conducted by the Department of Mechanical Engineering, King's college of Engineering, Chennai.
- **Design and Analysis of Compliant Micro gripper- A Review** in the International Conference **ICRTMME'19** conducted by the Department of Mechanical Engineering, Chennai Institute of Technology, Chennai.
- **Finite Element Analysis of Magnesium Alloy Torque Arm** in the International Conference **ASTMLS-2020** conducted by the Department of Mechanical Engineering, SONA college of Technology, Salem.
- **Experimental investigation of micro holes using ECM for minimizing overcut** in the International Conference **ASTMLS-2020** conducted by the Department of Mechanical Engineering, SONA college of Technology, Salem.
- **Static, Fatigue and Dynamic Analysis of Automobile Torque Arm Using FEM** in the International Conference **ASTMLS-2020 ICSMMT 20121-AIP Conference Proceedings.2021.**

National Conference

- **Design & Development of Safety Valve for Diesel tank** in the National Conference **XETA- 2K6** conducted by the Department of Mechanical Engineering, Jayam college of engineering and Technology, Dharmapuri.
- **Optimization of Duct using CFD** in the National Conference conducted **EMERGING TRENDS AND INNOVATIONS IN MECHANICAL SCIENCES-2K16** by the Department of Mechanical Engineering, Bharath University, Chennai.
- **Analysis of Diesel Tank using FEA** in the National Conference **NCME 2018** conducted by the Department of Mechanical Engineering, SONA college of Technology, Salem.
- **Numerical and Analytical Analysis of Spur Gear Using FEA** in the National Conference conducted **NCME 2018** by the Department of Mechanical Engineering, SONA college of Technology, Salem.
- **Static Pressure and Crash Analysis of Lorry Diesel Tank Using FEA** in the National Conference conducted **RTDME 2018** By the Department of Mechanical Engineering, Ananth Institute of Higher Education and Research, Chennai.
- **Torsion and Bending Stress Analysis of Bolt Using FEA** in the National Conference **NCME 2018** conducted By the Department of Mechanical Engineering, SONA college of Technology, Salem.
- **INVESTIGATION OF SURFACE ROUGHNESS OF TITANIUM ALLOY USING MICRO-ECM** in the National Conference **NCAMMCE -18** conducted By the Department of Mechanical Engineering, M.Kumarasamy college of Engineering, Karur.

Achievements / Awards

- Best paper award - **IJMPERD**- Scopus indexed journal- Trans Stellar Publications.
- Top ten in SSRN Proceedings, **Elsevier** based on downloading list.