

Curriculum Vitae

A.JOSEPH AROCKIAM, B.Sc., B.E., M.E., (Ph.D.),

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Objective:

To pursue a highly rewarding career, seeking for a job in challenging and healthy work environment where I can utilize my skills and knowledge efficiently for organizational growth and professional development.

Educational Qualification

DOCTOR OF PHILOSOPHY

| | |
|-------------------------------|---|
| Major | 3D Printing in Polymer Composites |
| Year of Passing | Pursuing |
| Institute / University | Kalasalingam Academy of Research and Education |
| Located In | Krishnakoil, Tamilnadu, India |

DEGREE-MASTER OF ENGINEERING

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|-------------------------------|--|
| Major | Engineering Design |
| CGPA | 7.71 |
| Graduation Date | July 2016 |
| Institute / University | MNSK COLLEGE OF ENGINEERING / ANNA UNIVERSITY |
| Located In | Pudukkottai, Tamilnadu, India |

DEGREE-BACHELOR OF ENGINEERING

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|-------------------------------|---|
| Major | Mechanical Engineering |
| CGPA | 7.60 |
| Graduation Date | July 2013 |
| Institute / University | HINDUSTHAN INSTITUTE OF TECHNOLOGY / ANNA UNIVERSITY |
| Located In | Coimbatore, Tamilnadu, India |

DEGREE-BACHELOR OF SCIENCE

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|-------------------------------|---|
| Major | Mathematics |
| CGPA | 7.60 |
| Graduation Date | July 2010 |
| Institute / University | GOVERNMENT ARTS COLLEGE / BHARATHIDASAN UNIVERSITY |
| Located In | Kumbakonam, Tamilnadu, India |

HIGHER SECONDARY EDUCATION

| | |
|------------------------|-----------------------------------|
| Board | State Board |
| Percentage | 74 |
| Year of Passing | May 2007 |
| School | Don Bosco Higher Secondary School |
| Located In | Varadarajanpet, Tamilnadu, India |

INTERMEDIATE

| | |
|------------------------|------------------------------------|
| Board | State Board |
| Percentage | 74 |
| Year of Passing | May 2005 |
| School | Government Higher Secondary School |
| Located In | T. Palur, Tamilnadu, India. |

Working Experience

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|---------------------------|----------|---|
| Employer | 1 | : ARASU ENGINEERING COLLEGE, Kumbakonam. |
| Year of Experience | | : 01.07.2016 to Till date |
| Designation | | : Assistant Professor |
| Handled Subjects | | : 1. Mechanics of Machines (3) 2. Strength of Materials (2) 3. Design of machine Elements (2) 4. Automotive Engine Components Design (3) 5. Automotive Transmission (1) 6. Engine and vehicle management systems (1) 7. Vehicle body Engineering (1) 8. Engine Auxillary Systems (1) 9. Automobile Engineering (1) |
| Employer | 2 | : KINGS COLLEGE OF ENGINEERING, Thanjavur. |
| Year of Experience | | : 1 Year |
| Designation | | : Lecturer |
| Handled Subjects | | : 1. Strength of Materials 2. Engineering Graphics 3. Gas Dynamics and Jet Propulsion 4. Manufacturing Technology 5. Unconventional Machining Process |

Journal Publication

| S.No. | Title of the Paper | Name of the journal | Year & Volume | No. of Citations |
|-------|---|---|---------------|------------------|
| 1 | Influence of EDM parameters on Al ₂ O ₃ & Gr reinforced aluminium matrix composites | Elsevier - Materials Today: Proceedings | May 2021 | - |
| 2 | Friction welding of similar and dissimilar materials: A review | Elsevier - Materials Today: Proceedings | March 2021 | - |

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|---|--|---|------------------------------------|---|
| 3 | Mechanical properties on INCONEL 800H alloy by TIG welding process | Elsevier - Materials Today: Proceedings | January 2021 | - |
| 4 | Statistical analysis of END milling parameters on aluminium matrix composite: A grey relational approach | Elsevier - Materials Today: Proceedings | December 2020 | - |
| 5 | Reinforcement of AISI 304 SSWM in a NFHC with Unsaturated Polyester Resin for Mechanical Behaviour | International Journal on Recent Researches in Science, Engineering & Technology (IJRRSET) | Volume 7, Issue 2 February 2019 | - |
| 6 | Design and Remodeling 60cc to 80cc Mini Race Bike with Light weight and Low-cost fiber Composites | Omega Global Journal of Engineering and Technology | Volume1, Issue 1, June 2019 | - |
| 7 | Design and modify of Mill discharge valve using in thermal power plant boiler | Omega Global Journal of Engineering and Technology | Volume1, Issue 1, August 2019 | - |

Conferences

| S.No. | Date | Title of the Paper | Name of the Conference / Symposia | Venue | Remarks |
|-------|------------|---|--|---------------------------------------|---------|
| 1 | 17.03.2020 | Recycle of Fish Scale Powder as a Filament in 3D Printing | Organized on International Conference on Emerging Approaches in Mechanical and Automobile Engineering – ICEAMAE'21 | Arasu Engineering college, Kumbakonam | - |

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|---|---------------|---|---|---|---|
| 2 | 20.02.2020 | Experimental investigation on performance of TES integrated Flat plate solar collector with nano fluids as working medium | International Conference/ IconPOWEROBO- '20 | Arasu Engineering college, Kumbakonam | - |
| 3 | 20.02.2020 | Advanced Technologies in Power and Robotics Engineering | International Conference/ IconPOWEROBO- '20 | Arasu Engineering college, Kumbakonam | - |
| 4 | 16.03.2019 | Design and concoction of Eco - recycle, lightweight bicycle composition of Ochlandra travancorica with epoxy resin | National Conference/ NCRAME-2019 | Kings College of Engineering, Punalkulam. | - |
| 5 | 05.03.2019 | Reinforcement of AISI 304 SSWM in a NFHC with Unsaturated Polyester Resin for Mechanical Behaviour | International Conference/ ICMR-19 | K.S.K. College of Engineering, Darasuram. | - |
| 6 | 25,26.04.2016 | Experimental Investigation of a Centrifugal Blower by using CFD | International Conference/ ICMED-16 | SSN College of Engineering, Kalavakkam | - |
| 7 | 14.03.2015 | Design and Fabrication of a modified Filtration module in an Electrolytic Process | National Conference/ NCEMS-15 | Kings College of Engineering, Punalkulam. | - |

Faculty Development Programmes, Seminars & Workshops attended

| S.No. | Name of the event | Venue | Date & Duration |
|-------|---|--|--------------------------------------|
| 1 | Advances in Machining and Processing Technology | IIT, Varanasi | 01.02.2021 to 06.02.2021 / 6 days |
| 2 | 3D Printing and Design | AICTE Training and Learning (ATAL) Academy | 01.02.2021 to 05.02.2021 / 5 days |
| 3 | Structural Performance and Damage Prediction of Nanocomposite Materials in Aerospace applications | Hindustan Institute of Technology & Science, Chennai | 14.12.2020 to 19.12.2020 / 6 days |
| 4 | Frontier of 3D Printing Technology and Its Industrial Applications (Phase – I) | Lakireddy Bali Reddy College of Engineering, Andra Pradesh | 07.12.2020 to 19.12.2020 / Two weeks |
| 5 | Emerging Automotive Technologies | Kalasalingam Academic of Research & Education, Krishnankoil | 25.06.2020 to 30.06.2020 / 6 days |
| 6 | Advancements in Manufacturing and Optimization Techniques – (AMOT-2020) | Jayamuki Institute of Technological Sciences, Warrangal | 22.06.2020 to 26.06.2020 / 5 days |
| 7 | Future Materials: Nanocomposites | Bharati Vidyapeeth College of Engineering, Pune | 15.06.2020 to 21.06.2020 / 7 days |
| 8 | Heat Transfer and Computational Fluid Dynamics Towards Industrial Applications | Sairam Institute of Technology, Chennai | 12.06.2020 to 18.06.2020 / 7 days |
| 9 | Mechanical Behaviour of Advanced Materials and Its Scope for Engineering Applications | Sri Venkateswara College of Engineering, Sriperumbudur | 10.06.2020 to 14.06.2020 / 5 days |
| 10 | Online Teaching-Learning Processes using ICT Tools for Education 4.0 | St. Vincent Pallotti College of Engineering and Technology, Nagpur | 08.06.2020 to 13.06.2020 / 6 days |
| 11 | Emerging Trends in Mechanical Engineering | St. Peter's Engineering College, Hyderabad | 02.06.2020 to 06.06.2020 / 5 days |
| 12 | Advanced NDT Techniques & Applications in Industry | QISCET, Ongole | 25.05.2020 to 29.05.2020 / 5 days |
| 13 | Engineering Thermodynamics Essentials | Sri Venkateswara College of Engineering, Sriperumbudur | 23.05.2020 to 27.05.2020 / 5 days |
| 14 | Materials for Thermal and Renewable Energy Research | Sairam Institute of Technology, Chennai | 20.05.2020 to 24.05.2020 / 5 days |
| 15 | Novel Materials and it's Industrial Applications | Karpagam College of Engineering, | 13.05.2020 to 18.05.2020 / 6 days |

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| | | Coimbatore | |
| 16 | MOODLE | Vellore Institute of Technology, Chennai | 13.05.2020 to 15.05.2020 / 3 days |
| 17 | Improving Your Research Visibility – Research Impact and Metrics | Velalar College of Engineering and Technology, Chennai | 11.05.2020 to 13.05.2020 / 3 days |
| 18 | Outcome-based education (OBE) | Sathyabama Institute of Science and Technology | 07.05.2020 to 09.05.2020 / 3 days |
| 19 | Technological Advancement in Power System Control, Power Controllers, Drives & E-Vehicles - TAPPAD 2020 | Dr. N.G.P. Institute of Technology, Chennai | 27.04.2020 to 01.05.2020 / 5 days |
| 20 | Level 1 – Student Induction Programme – AICTE Sponsored | PSG institute of technology, Coimbatore | 17.06.19 to 23.06.19 / 7 days |
| 21 | Level 0 – Student Induction Programme – AICTE Sponsored | Ammini College of Engineering, Palakkad, Kerala | 14.06.19 to 16.06.19/ 3 days |
| 22 | Processing of Composite materials (PCM 19)” | K. Ramakrishnan College of Engineering, Samayapuram | 16.04.19 / One day |
| 23 | Electric vehicle Design (workshop) | Vinayaka mission’s kirupananda variyar Engineering college, Salem | 29.08.2019 |
| 24 | Research challenges and opportunities in advanced Computational fluid dynamics for engineering applications (workshop) | Dr. N. G. P. Institute of technology, Coimbatore | 11.07.2019 |
| 25 | Recent Developments and Future Trends of Nanotechnology in Automobiles | Annamalai University, Annamalai Nagar | 12,13.04.17/ Two days |
| 26 | Fluid Flow Operation | Anna University, BIT Campus, Trichy | 19.12.16 to 25.12.16 / 7 days |
| 27 | Commercialization of Renewable Energy (National Seminar) | P.A. College of engineering and technology, Pollachi | 28.09.12 to 29.09.16 / 2 days |
| 28 | Latest trends in automobile technology (workshop) | Government college of technology, Coimbatore | 12.04.2013 |
| 29 | Art of Counselling (workshop) | Kings college of engineering, Thanjavur | 27.12.2013 to 28.12.2013 / 2 days |
| 30 | Recent advancements in mathematics (National Seminar) | Government arts college (Autonomous), Kumbakonam | 21.12.2009 to 22.12.2009 / 2 days |

Faculty Development Programmes, Seminars & Workshops organized

| S.No. | Name of the event | Venue | Date & Duration |
|-------|--|---------------------------------------|--------------------------|
| 1 | Organized on International Conference on Emerging Approaches in Mechanical and Automobile Engineering – (ICEAMAE'21) | Arasu Engineering College, Kumbakonam | 17.03.2021 to 18.03.2021 |
| 2 | Organized one day workshop on "Decarbonising the Engines" | Arasu Engineering College, Kumbakonam | 30.12.2020 |
| 3 | Organized online five day FDP on "ME8493 – Thermal Engineering – I" | Arasu Engineering College, Kumbakonam | 14.12.2020 to 18.12.2020 |
| 4 | Organized guest lecture on "E-Vehicle" | Arasu Engineering College, Kumbakonam | 24.09.2020 |
| 5 | Organized workshop on "Increasing Trends of 3D Printing Technology in Industries" | Arasu Engineering College, Kumbakonam | 25.09.2020 |
| 6 | Organized workshop on "Automobile Vehicle Exterior Design" | Arasu Engineering College, Kumbakonam | 26.09.2020 |
| 7 | Organized online six day FDP on Advancements in Mechanical and Automobile Engineering | Arasu Engineering College, Kumbakonam | 03.08.2020 to 08.08.2020 |
| 8 | Organized online five day FDP on "CE8394 – Fluid Mechanics and Machinery" | Arasu Engineering College, Kumbakonam | 29.06.2020 to 03.07.2020 |

Technical Skills

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|------------------------------|---|---|
| Operating Systems | : | Windows XP, Vista, Windows 7, Windows 8, Windows 10. |
| Multimedia | : | Adobe Photoshop and HTML. |
| Design Based Software | : | Auto CAD (Detailing), CATIA V5 R19 (3d modeling, Assembly, Detailing), CREO (3d modeling, Assembly, Detailing) and PRO-E. |
| Design Based Skills | : | Geometric Dimensioning & Tolerancing (GD & T), Good Drawing reading skills, Reverse Engineering, Limits & Fits. |
| Language | : | Basic concepts of C Language. |
| Proficiency | : | MS Office Applications, PC troubleshooting. |
| Area of Interest | : | 3D printing in polymer composites, Engineering Design, Production, Maintenance, Planning, Construction, R&D. |

Internship

Student Intern, "FORD INDIA PRIVATE LIMITED", CHENNAI.

| | |
|--------------------|---|
| Title | : UPGRADATION OF OIL SEPARATOR (PAINT SHOP) |
| Team Size | : 2 members. |
| Role | : Team Leader. |
| Description | : In our project, we designed and successfully installed two filters, which are "magnetic filter" and "band filter" additionally over the oil separator. Oil separator is a huge machine consist of ultra filtration (UF) modules which separates oil from the chemical solution from the bath where the car body is dipped (Paint shop). These additionally installed filters avoids the entry of iron burr and suspended colloids in to the UF module and increases the module life and replacement cost. |

Roles and Responsibilities

- ✓ **YRC Programme Officer** in Arasu engineering college, Kumbakonam.
- ✓ **NCC Care Taker Officer** in Arasu Engineering College, Kumbakonam.
- ✓ Member for Board of studies in Mechanical engineering department, Hindusthan institute of technology (Autonomous), Coimbatore.
- ✓ Member of the International association of engineers (IAENG) – No: 246182
- ✓ Member of the Institute for Engineering Research and Publication (IFERP) – No: PM43785296
- ✓ Member of the Institute of Research Engineers and Doctors (IRED) – No: AM2021049227
- ✓ Passed in **NCC (National Cadet Crops) – "B" Certificate.**

Interpersonal Skills

- ✓ Ability to rapidly build relationship and set up trust.
 - ✓ Confident and Determined.
 - ✓ Ability to balance and tackle the situation.
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Personal Details

Father's Name : C. Antony Samy
Date of Birth : 15/03/1990
Gender – Marital Status : Male – Married
Nationality : Indian
Languages Known : Tamil, English
Hobbies : Playing Cricket and Basket ball, Travelling and Hearing Music.

Declaration

I hereby declare that all the information given in this form is true to the best of my knowledge.

Date:

Place: Kumbakonam, Tamil Nadu, India.

A. Joseph Arockiam B.Sc., B.E., M.E., (Ph.D.),

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