

GOWRI SANKAR. C

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Academic Qualification:

Institution Name	Course	Department	Year of Passing	Score
GBHS, kavindapadi	SSLC	-	2008	89.80%
GBHS, kavindapadi	HSC	Computer Science	2010	90.41%
College of Engineering Guindy, Anna University	B.E	Mechanical Engineering	2014	7.82 CGPA
Erode Sengunthar Engineering College	M.E	Manufacturing Engineering	2019	8.28 CGPA

Projects:

- Title: Phase Change Material encapsulated heat storage bowl. (UG Academic)
- Title: Experimental investigation on “Vermiculite Weathering Coarse Tiles” for passive cooling of buildings. (UG Academic)
- Title: ZnO Nanowire on modified Carbon fibre for Interfacial studies and Energy harvesting. (JRF Research project)
- A study on mechanical properties of Glass fiber reinforced polyester composite with addition of Al_2O_3 particles (PG Academic)

Software Skills:

- Ms-office,
- Pro-E 5.0/Creo elements,
- AutoCad,
- ANSYS,
- CATIA.

Professional Skills:

1. Knowledge of laboratory standards and best practices.
2. Knowledge on mechanical instruments, testing standards and characterization.
3. Hands on experience of fiber polymer composite manufacturing.
4. Possess communication, analytical, problem solving and R&D skills.

Experience:

Junior Research Fellowship in DST-SERB Project, VIT-AP University. (ZnO Nanowire on modified Carbon fibre for Interfacial studies and Energy harvesting) – (Oct. 2014- Aug. 2017).

Work history and Responsibilities:

1. Managed material procurement of consumable and non-consumable resources.
2. Getting approvals of PO and clearing of Purchase In-Voice from Accounts and Management.
3. Maintained Inventory stock book and List of bills as soft database.
4. Conducted Single fiber tensile testing of reinforcement fibers such as carbon, glass and natural silk and coir fibers.
5. Preparation of Experiment design (DOE) and Optimization Technique for coating of ZnO nanowires on fibers and conducting of experiments.
6. Studied Interfacial strength of ZnO nanowires modified fibers/epoxy composites using fragmentation test with help of Polarizing Optical Microscope.
7. Studied potential of ZnO Nanowires based piezoelectric nanogenerator for harvesting of mechanical energy as electrical energy.
8. Used design tool - CATIA, for design of plastic molds by 3D printing.
9. Implemented quality control procedures for research methodology
10. Prepared the project progress report.
11. Instructed students on their academic and research projects.

Publications:

Conferences

1. *International Conference on Additive Manufacturing (ICAM 2016):A Review on Energy Harvesting Using 3D Printed Fabrics for Wearable Electronics.*
2. *Gowthaman, S., Sankar, C.G. and Chandrakumar, P., 2017. Evaluation of Tensile Properties of Natural Silk and Coir Fibers. In Innovative Design and Development Practices in Aerospace and Automotive Engineering (pp. 393-399). Springer Singapore.*

Journals

1. *Gowthaman S., Chidambaram G.S., Rao D.B.G., Subramya H.V. and Chandrasekhar U., 2016. A Review on Energy Harvesting Using 3D Printed Fabrics for Wearable Electronics. Journal of The Institution of Engineers (India): Series C, pp.1-13.*
2. *Swaminathan, G., Palanisamy, C., Chidambaram, G., Henri, G. and Udayagiri, C., 2018. Enhancing the interfacial strength of glass/epoxy composites using ZnO nanowires. Composite Interfaces, 25(2), pp.151-168.*
3. *Enhanced mechanical properties of Glass fiber reinforced polymer composite with addition of Al₂O₃, Submitted to "Australian Journal of Mechanical Engineers". Under production stage.*

Declaration:

I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Yours faithfully,

(C.GOWRI SANKAR)