

Abhinav Omprakash Fulmali

Personal Data

Date of Birth: 17 December 1992
Address: Plot No.89, Raut Nagar, Yavatmal- 445001
Phone: 9527356968
email: abhinavfulmali@gmail.com

Career Objective

To work in the field of Research and Development where I can make best use of my knowledge, performance and experience to build eco-friendly technologies and fetch them in the economic range of common man.

Education

Current(2018)	M.Tech Department Metallurgical and Materials Engineering, National Institute Of Technology , Rourkela Major: Metallurgical and Materials Engineering Advisor: Dr. R.K. Prusty Gpa: 8.65/10
June 2014	B.E in Mechanical Engineering, Jawaharlal Darda Institute of Engineering and Technology , Yavatmal Percentage: 63.63
March 2010	Intermediate in Science, Amolakchand Mahavidlya , Yavatmal, Maharashtra Percentage: 71.83
March 2008	Matriculation , Free Methodist English High School , Yavatmal Percentage: 81.53

Published research paper

IOP Conference Series: Material Science and Engineering	<p>Effect of CNT addition on cure kinetics of glass fiber/epoxy composite - In this research, the effects of curing parameters on mechanical properties and glass transition temperature of CNT embedded glass fiber/epoxy composite (CNT-GE) has been evaluated. Control GE and 0.1 wt. % CNT embedded GE were post cured at combination of different temperature (80°C, 110°C, and 140°C) and time (0.5 hr, 3 hr and 6 hr). Optimum post curing parameters for CNT-GE composite observed to be 140°C-6hr.</p> <p>Effect of severely thermal shocked MWCNT enhanced glass fiber reinforced polymer composite: An emphasis on tensile and thermal responses - To study the influence of thermal-shock exposure on the mechanical behavior of CNT enhanced GE composites, samples were exposed to +70°C for 36 hrs followed by further exposure to -60°C for the similar interval of time. The ultimate tensile strength was raised by 15.11 % for 0.1 % CNT-GE composite as related to the thermal-shocked control GE conditioned samples.</p>
---	--

Projects

B.E.Project	January - June , 2014 An Experimental Investigation On Emission Of Low Heat Rejection Single Cylinder Diesel Engine And Its Simulation Using ANSYS - Test were performed on a single cylinder, four stroke, direct injection, diesel engine whose piston crown, cylinder head and valves are coated with a 0.5 mm thickness of mullite. It is observed that NOX increased by 20.19 percent, HC emission decreased by 24.35 percent, CO emission decreased by 29.41 percent than conventional engine in low heat rejection engine
-------------	---

M.Tech Project	<p>October - December, 2017</p> <p>Effect of Pristine Carbon nanotubes(CNT) addition on cure kinetics of glass fiber epoxy(GE) composite – post curing parameters were studied to obtain the optimum properties for CNT embedded glass fiber and epoxy composite. Optimum postcuring parameters for CNT-GE composite observed to be 140°C-6hr.</p> <p>May - July, 2017 - 2018</p> <p>Effect of CNT/CNT-COOH addition on Creep performance and water absorption behaviour of embedded glass fiber/epoxy composites - Lifetime creep behaviour of for GE, 0.1 wt. % CNT-GE and 0.1 wt. % CNT-COOH-GE composites (without ageing) was carried out using accelerated deformation at higher temperatures and time-temperature superposition principle. CNT/CNT-COOH addition improved resistance against creep deformation even up to 10⁵ years at reference temperature of 30°C, after which it starts decreasing and shows resistance inferior to GE composite.</p>
----------------	---

Work Experience

July 2014-1 July 2015	Trainee Engineer at Vishwakarma Fabrication Works, Nagpur, Maharashtra Worked on Solidworks software for Project Related to Power-plant, Cement Industry and General Engineering.
12 January 2016-30 June 2016	Project Engineer at Treknocom, Pune, Maharashtra Worked on Solidworks software at Atlas Copco as an Third Party and got a chance to work on Nut Tightening systems for well Known Companies such as Maruti Suzuki, Ford motor, Hindustan Limited, Mahindra and John Deere.

Technical Skills

General Programming:	Matlab
Other Software:	SolidWorks, Auto CAD 2014, CATIA V5R22, CREO 2.0, Origin9

Soft Skills

Languages	English and Hindi - Professional Fluency Marathi - Mother Tongue
Soft Skills	Excellent presence of mind Good analytical thinking

Extra Curricular Activities

Poster Presentation	<p>8 December 2017</p> <p>Presented a Poster on topic "Effect of Pristine Carbon nanotubes(CNT) addition on cure kinetics of glass fiber/epoxy composite" at NCCPM 17 at National Institute Of Technology, Rourkela</p>
Paper Presentation	<p>19 March 2014</p> <p>Participated in Paper Presentation at Dr. Bhausaheb Nandurkar College of Engineering, Yavatmal</p>
Robowar	<p>16 September 2011</p> <p>Participated in Robonance-11 at J.D.I.E.T, Yavatmal.</p>

Scholarships and Certificates

February 2012, 2013 And 2014	College Football Tournament at J.D.I.E.T - 1st Prize
February 2012, 2013 And 2014	Participated in National Level Fashion Show competition 'SFILATA' at J.D.I.E.T.
January 2011	Participated in Orchestra at Euphoria'11 held at J.D.I.E.T.

Interests and Activities

Travelling, Playing Football, Cycling, Singing