



Rokalla Dinesh Kumar

Roll Number : 184103220
M.Tech - Mechanical Engineering(CAM)
Indian Institute of Technology Guwahati

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Guwahati	8.35 (Current)	2018 - Present
B.Tech	JNTUK University College Of Engineering, Vizianagaram	71.84%	2014 - 2018
Senior secondary	BIE, Andhra Pradesh	87.60%	2010
Secondary	SSC, Andhra Pradesh	89.67%	2008

Projects

- Bioinspired composite segmented armour : numerical simulation** *Ongoing*
Dr. Pransanjit Khanikar, Assistant Professor, Dept. of Mechanical Engineering, IIT Guwahati
 Finite element modeling used to analyze the effect of scale geometry and other impact parameters on the ballistic protection provided by a bioinspired segmented ceramic armour.
- Term paper on laser assisted grinding of ceramics** *Nov 2018*
Dr. M. Ravi kumar, Associate Professor, Dept. of Mechanical Engineering, IIT Guwahati
- Biodiesel as a fuel in four stroke single cylinder diesel engine** *Apr 2018*
M. Manikumar, Assistant Professor, Dept. of Mechanical Engineering, JNTUK-UCEV
 Increasing in mechanical and thermal efficiency of diesel engine by using biodiesel, i.e. blending of vegetable oil (5%, 10%, 15% and 20%) and diesel.
- Fabrication of mini stone crusher** *Nov 2017*
 static analysis of four bar mechanism act as a stone crusher in toggle position

Technical skills

- Programming languages** : C, MATLAB*
 - Analysis softwares** : ANSYS*, ABAQUS, LS-DYNA
 - Modeling softwares** : CATIA, SOLIDWORKS, AutoCAD
 - Miscellaneous** : CNC Part-programming *
 - Operating system** : Windows, Linux
- * Elementary proficiency

Key courses taken

- Finite Element Method
- Physics of manufacturing
- Mechanics of sheet metal formation
- Computer integrated manufacturing
- Advanced machining process
- Mechatronics and manufacturing automation

Achievements

- GATE 2018** : Secured All India Rank of 2730 among 1.96 lakh candidates appearing for the test.
- Got first prize in "Model Making" of GEOTHERMAL POWER PLANT on the eve of Engineer's day, 2016.
- Got first prize in four mandal level quiz in school.

Extracurriculars

- **TEACHING ASSISTANT** for workshop in IIT Guwahati*
- **IC ENGINE AND OFF-ROAD VEHICLE DESIGN workshop:** Attended a one-day workshop on IC engine and off-road vehicle design,NIT-Warangal.
- **ROBOTICS workshop:** Attended a one-day workshop on robotics by TORQUE-2K15,JNTU Kakinada.
- Volunteered for ROBORACE AND ROBOWAR conducted by MECHANO MMXV ,JNTUK-UCEV.
- Volunteered for Poster presentation conducted by MECHANO 2K18 ,JNTUK-UCEV.
- Volunteering for Disha in IIT Guwahati*

* *Till date*