ANUP KULKARNI

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EDUCATION

movements.

EDUCATION			
B.Tech: Mechanical Engineering	Indian Institute of Technology, Tirupati, AP, India	GPA: 8.31/10	2020
SKILLS			
 Experienced with FEM software 	including ANSYS and proficient with CAD modeling of	on various platforms	
■ Capable of programming in C ++	-, Python, HTML and JavaScript		
PROJECTS			
-	comb and composite mirror for space applications		2020
1	to study influence of cell size and height to optimize hor structure and carried out initial prototyping.	neycomb performance. M	anufactured
■ Manufacturing, Designing of t	he CFRP Mirror and Optimization of MFDs for Space	ce Application	2019
1 5 1	rameters using modal and structural analysis in ANSYS. zed Mirror Fixation Device (MFD) parameters using Zer		
 Designing of ergonomic crutch 	es to reduce stresses on the radial nerve and improve	ed ease of handling	2019
Designed a retrofittable attachme	ent with smart locking mechanism to improve user comf	ort and provide additional	body

Developing an app to design a spur gear pair for given working parameters in MATLAB

2018

Built a MATLAB app which gave gear design parameters, and material preferences for the input operating conditions.

Numerical analysis of composite car bonnets for maximum pedestrian safety during frontal impact
 Used ANSYS Workbench to stimulate pedestrian head impact with front bonnet of a car

2017

PROFESSIONAL EXPERIENCE

Graduate Engineering Trainee, Larsen and Toubro Limited

2020

Completed various training courses on engineering, and business management. Completed a SCADA design for water distribution system.

Intern, Indian Space Research Organization (ISRO)

2019

Manufactured and designed a prototype Carbon Fiber Reinforced Plastic mirror (CFRP) mirror. Performed an extensive literature survey to support the studies.

Project Trainee, Tata Technologies

2017

Performed bench-marking and trend analysis. Made CAD model of a car panel and did design validation using static analysis

ACCOMPLISHMENTS

 Inter IIT, Tech meet, BETiC Medical Challenge, IIT Bombay, 1st Position 	2019
 Selected for Sakura Science Exchange Program, Japan to represent India 	2014
■ INSPIRE science competition, top 60 projects in India	2013
 Maharashtra State Pollution Control Board Project Competition, 1st Position 	2011
 National Children Science Congress, A Grade at the national level conference, Chennai 	2010
 National Children Science Congress, A Grade at the national level conference, Ahmadabad 	2009

LEADERSHIP

	Head , Content Development Team, Tirutsava (Technical & Cultural Festival of IIT Tirupat)	2018-2019
•	Member, Editorial Board - Samvid (Official Newsletter of IIT-Tirupati)	2017-2018
•	Coordinator, Gagan Vedhi Astronomy Club IIT-Tirupati	2016-2018

EXTRA-CURRICULAR ACTIVITIES

- Debating and Quizzing: Represented IIT Tirupati at various debating and quizzing competitions
- **National Cadet Corps:** Best Cadet, Kolhapur Division
- **Tabla** (*Indian percussion instrument*): Completed Praveshika and Prathama exams