



Nikhil Reghunath

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Profile

Passionate Engineer with having Bachelor's degree in mechanical engineering and seeking a learning-oriented position. Familiar with the fundamentals of the discipline and best practices in materials science, design, manufacturing, and project management.

Courses

Diploma in Project Planning and Management,
Regional Skill Development and Certification Authority

Autocad,
Regional Skill Development and Certification Authority

Advanced Manufacturing Process Analysis,
The State University of New York ☑

Wind Energy, *Technical University of Denmark*

Technical Skills

AutoCad	● ● ● ● ●
Ansysis Stimulation	● ● ● ● ●
C programming	● ● ● ● ●
MS-Office (includes Word, Excel, Power Point)	● ● ● ● ●

Education

Bachelor's degree in mechanical engineering,
Amrita Vishwa Vidyapeetham, University
07/2017 – 05/2021 | India

Professional Experience

Mechanical Engineer, *Intech Engineering Services*
08/2021 – 12/2021 | India

- Designed mechanical components using computer-aided design (CAD) software and analysed various mechanical properties using finite element analysis (FEA).
- Maintenance and installation and operations of equipments.
- Assisted seniors in material selection processing, testing and developing materials for large-scale manufacturing.
- Conducted reviews of engineering options and evaluations to validate the robust nature of new products and design solutions.
- Conducted initial design studies to address specific design problems and challenges
- Maintained timely and accurate oral and written technical reports of engineering activities.

Personal Skills

Analytical and problem-solving
Critical thinker
Good with numbers and arithmetic
Flexible and agile
Practical mindset
Effective communicator
Health & safety oriented
Research and development
Good ability to adapt to changing environment

Publications

An investigation on the impact of SiC /B4C on the mechanical properties of Al-6, 6Si-O, 4Mg alloy, *Materials Today: Proceedings* [↗](#)
12/2019

Strontium in Al-Si-Mg Alloy: A Review, *Metals and Materials International volume* [↗](#)
25/05/2021

Mechanical Engineer Intern,

Cochin Shipyards Limited (Govt. of India Enterprise)

12/2018 – 12/2018 | Ernakulam, India

- Assisted in project administration including writing reports, gathering information, drafting proposals, drafting correspondence, tracking project costs, and completing progress reports
- Performed research and simple calculations along with some exposure to CAD, design and cross-training.
- Assisted technical staff with various project tasks, including researching, compiling and evaluating project data, preparing reports and performing analysis calculations for product design projects.

Projects

Mechanical Property Testing of LM25 Alloy Using Finite Element Analysis

2021

The project consists of Finite element modeling of Tensile and Vickers hardness test of common LM25 alloy. The values of hardness and tensile properties were compared with previous experimental work which was done by seniors. To conduct these analysis, a suitable model was prepared and its functionality was verified by observing its plastic behavior. It was proved that this model can be used in future similar tests of LM25 alloy. The values of as-cast alloys obtained through Finite element analysis was then compared with solutionized alloy, to prove the latter's effectiveness in increasing the mechanical properties of the alloy.