

ANSAL ELLATH

MECHANICAL ENGINEER

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EDUCATION

- 2013, **M. Tech** (Design Engineering), Applied Mechanics, Indian Institute of Technology Delhi (**IIT Delhi**) with first class.
- 2010, **B. Tech** (Mechanical Engineering), Cochin University of Science and Technology with first class.

EXPERIENCE SUMMARY

- **5** years of experience as a lecturer and mechanical engineer.
- Holder of **Patent #906/DEL/2013 A** from Indian Patent Office, issued 26th June 2015.
- Currently as **Lecturer in Design Engineering** at Mechanical Engineering Dept. Samara University, Semera, Ethiopia.
- Well experienced in 2D and 3D drawing using **PDMS, AutoCAD, CATIA V5, IDEAS, and SOLIDWORKS**.
- Good knowledge in Primavera P6 and Microsoft Excel.
- Conducted finite element analysis using **ABAQUS** and **ANSYS** software's.
- Experience in finite element coding.
- Conducted simulation using **MATLAB** and **C** programming.

AWARDS, GRANTS, SCHOLARSHIPS & CERTIFICATIONS

- **Design approval & fund allocation** under the scheme Technology Development Project Initiation Award for Students (TDP-IAS) under IRD unit IIT Delhi.
- **Secured 98.55 percentile out of 82000** candidates in the Graduate Aptitude Test in Engineering (GATE) in 2011
- **M. Tech financial assistance** by MHRD, Govt. of India (2011-13)
- **GATE scholarship** by MHRD, Govt. of India (2011-13)

PROFESSIONAL EXPERIENCE

1. **Lecturer:** Samara University, Semera, Ethiopia(24/10/2016 – 31/07/2017)
2. **Adhoc Lecturer:** National Institute of Technology Calicut, India (18/12/2013 – 10/06/2015)
3. **Mechanical Engineer :** Prayaga Engineering Constructors, Ambalamugal, Cochin, India (May 2009 to May 2011)

PATENT

International patent has been approved for the product "*Multipurpose wheel chair*" from Indian patent office with patent number **906/DEL/2013 A**.

Official journal of Indian Patent Office part i issued on 26th June 2015, page number 823.

URL:http://ipindia.gov.in/ipr/patent/journal_archieve/journal_2015/pat_arch_062015/official_journal_26062015_part_i.pdf

PROJECTS COMPLETED

Field: Mechanical Engineer.

1. At Prayaga Engineering Constructors.

- Supervision and implementation of all Mechanical related works at site as per approved drawings, methods and safety rule.
- Estimating, preparing and assigning the resources such as manpower, materials, consumables, equipment, tools, etc., required for all Mechanical and related works prior to execution
- Interpreting construction drawings, studies the contract documents and applicable standards or specifications prior to execution of any jobs.
- Manage directly and provide engineering and technical supports to all the Mechanical work groups at site.
- Planning the execution of all Mechanical related works and coordinates the works to Electrical and civil groups.

Assigning targets for accomplishment and ensuring targets are met on daily basis for all Mechanical groups at site.

2. Product design, analysis and construction of “**Multipurpose wheelchair for physically handicapped**”.
 - This wheelchair helps physically handicapped to use the western lavatories, can reach at a particular height, cleaning mechanism & a table.
 - Wheelchair was designed, conducted analysis using ABAQUS and manufactured working model.
 - The project was got funded by IRD (Industrial R&D) unit at IIT Delhi.
 - The patent was granted from Indian Patent Office in June 26, 2015 with patent application number 906/DEL/2013 A.

3. Experimental and Numerical Study of **Clay-Pot Refrigerator**.
 - The simple clay-pot refrigerator is ideally suited for preserving vegetarian foods in hot and dry climates. The refrigerator works on evaporative cooling principle.
 - The project study state performance of the refrigerator is analyzed using Reynolds flow model of convective heat/mass transfer.
 - Clay pots with specific dimensions and properties are manufactured by traditional pot makers and Clay-Pot Refrigerators are constructed using these pots.
 - Different type of experiments is conducted on these refrigerators and numerical study has been conducted by MATLAB simulation with these experimental values.

4. Impact Analysis on **Motorcycle Helmet**.
 - Motorcycle helmets are tested by measuring the acceleration of the rigid head form at the time of impact,
 - Numerical validation has conducted based on acceleration data.
 - Helmet impact test is conducted and the data is taken. Impact force, displacement and strains are used to validate the finite element model to obtain reasonably good model of the helmet.

5. Design and Construction of **Air-Boat**.
 - The Air-Boat does not have propeller, instead of propeller it has a large fan on the back side of the boat.
 - The boat is capable of travelling in different water conditions and especially suitable for muddy and shallow water level conditions.

- A prototype of a working air-boat was designed and fabricated and the analysis of finished structure was done using the free software called **DELFTship**.

SPONSORED PROJECTS

Research Fund Allocation on project titled Multipurpose Wheelchair. Grant Amount: Rs.100000/-. Duration: October 2011 –October 2012: Funded by IRD unit IIT Delhi.

PERSONAL DETAILS

Father's Name : Ahammed
Date of Birth : 09/04/1987
Marital status : Married
Languages known : Malayalam, Hindi, English, Arabic
Phone no : +919447382224
Passport No : M6015644
Expiry Date : 05/02/2025

DECLARATION

I hereby declare that the particular mentioned above are true to the best of knowledge.

Place:

Date :

(ANSAL ELLATH)