

## RESUME

**Dr. MOHD TOUSEEF AHMED**

16-114/2, Near NanapaneniKalyan  
Mandapam, ZandaChettustreet,  
Nambur, PedakakaniMandal,  
Guntur (Dst.)

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### **OBJECTIVE**

To work and grow in a highly focused and motivated environment to achieve the set objective by developing personal and interpersonal skills and prove myself worthy in the uplift of the organization and the Society.

### **EDUCATIONAL QUALIFICATIONS**

- **Ph.D.** awarded in the Mechanical Engineering from Osmania University, Hyderabad on 6<sup>th</sup> October 2023.
- **MBA (HRM)** (2010-2012), Acharya Nagarjuna University, Guntur
- **M.E (CAD/CAM)** (2009-2011), MVSR Engineering College, Osmania University with Aggregate **72%**
- **B.E** in Mechanical Production Engineering (2005-2009), Deccan College of Engineering & Technology, Osmania University with an Aggregate of **64%**
- **Intermediate** in M.P.C. from S.S.P Junior College, Guntur (2003-2005) with an Aggregate **73%**
- **S.S.C** from J.M.J English Medium School, Nambur (2001-2003) with Aggregate **70%**

### **WORK EXPERIENCE**

**Name of the University:** Acharya Nagarjuna University

**Designation** : Assistant Professor, Department of Mechanical Engineering.

**Work Experience** : August 2012 to till date. (11 Years 2 months)

### **OTHER - TECHNICAL COMMITTEE MEMBER/ PROFESSIONAL MEMBERSHIPS**

Coordinator	: Startup & Innovation Cell
Training & Placement Officer	: Placement Cell
Andhra Pradesh Higher Education Planning Board-Guntur Region Cluster	: Research Committee member
Internship Nodal Officer	: Conventional Degree Courses, Acharya Nagarjuna University.
Member	: NAAC Steering Committee
Convener	: Minority Cell, ANU
Member	: ANU- R & D Cell- Product Development, Monitoring and Commercialization.
Member	: NIRF Ranking Monitoring Committee, ANU
Editorial Board Member	: ANU Journal
In-charge	: Internships & Industrial Visits
Society Membership	: Life Member of SFA,
AP TPO Consortium	: Life Member

National TPO Club Member	: Member since June 2022 (NTC0810)
SPOC	: Dassault's 3D Experience Center, Applied Robotics Control lab, Skill College-ANU-AP
Number of M.Tech Projects Guided	: 16+2*
Number of B.Tech Projects Guided	: 19+2*

#### **AWARDS & APPRECIATIONS RECEIVED**

1. Received the Best Government Approved Patent Award on Acharya Nagarjuna University 46<sup>th</sup> Foundation day on 11-09-2023
2. Received a certificate of appreciation from KodNest Technologies Pvt. Ltd. In recognition of exceptional dedication and support in bridging the gap between education and industry.
3. Received a letter of appreciation for participating and winning a prize in Advanced Data Science Hackathon.
4. Received a letter of appreciation as a Best SPOC for conducting ARC & Advanced Data Science International Internship courses for CSE, ECE, EE & ME students for 2021 & 2022 by IES in collaboration with APSSDC.
5. Given a Lecture as a Resource person in a National Seminar on "Women Entrepreneurship and Skill development: Issues, challenges & Developments" at DNR College of Engineering & Technology, Bhimavaram on 8<sup>th</sup> march 2022.
6. Received certificate of participation for Internshala Annual Rankings 2021, Congratulating on rankings 110 among 1100+ participating colleges all over India.
7. Received a gold medal and a certificate as best TPO by KarmSarathi, an NGO with Registration number:208 of 2019
8. Nominated for iB Hubs Super 30-a nationwide initiative to honor inspiring teachers across India.
9. A token of appreciation as a Top Career Builder presented by Alines Group 'Intelligent Living'.
10. Received an appreciation and Memento from IT Minister of Andhra Pradesh for organizing Electrothon-2018
11. Received a Memento & Certificate for exhibiting the innovative projects and Startup Apps at 104<sup>th</sup> Indian Science Congress, Tirupati on behalf of Acharya Nagarjuna University.

#### **RESEARCH FUNDING**

1. Received the Seed Grant of RS 2,60,000 from Acharya Nagarjuna University on 26<sup>th</sup> May 2023 for project "Beach Cleaning Machine".
2. Received a funding of Rs 5 Lakhs for a project Chain Dragging Boat from ANGRU Poshan Incubation Center, Tirupati and Commercialized the product with a company called Tousha Technology Innovations.

#### **ESTABLISHED INCUBATION CENTERS**

1. Established two incubation centers in Acharya Nagarjuna University.
2. Drone Technology Incubation center by Tree-D Hubs company
3. Clean Energy & Clear Design Incubation center by Jesvid Cryo Technologies Pvt. Ltd

#### **PATENTS**

1. I have attained a Design patent for Designing a Boat for Chain Dragging in Aqua- farms. Design No- 329718-001, date-01/06/2020 and Date of issue 29/04/2021.
2. Filed a Design Patent for A DEVICE TO REMOVE AND COLLECT WATER HYACINTH on 8<sup>th</sup> June 2021 Ref. No/Application No- 344392-001 was accepted and the certificate under

process.

3. Filed a Design Patent for 344393-001 BEACH CLEANING MACHINE on 8<sup>th</sup> June 2021 Ref. No/Application No- 344393-001 was accepted and the certificate is under process.

#### COPYRIGHT

1. Applied copyright for Matlab code, Md. Touseef Ahamad, Dr. A. Seshu Kumar, Prof. A.M.K Prasad. "Modeling of Thermal Runaway of Dinitrotoluene to Trinitrotoluene", Diary No-6624/2022-CO/SW, filing date: 28-03-2022, Copyright office, Government of India.
2. Copyright accepted for Matlab code, Md. Touseef Ahamad, Dr. A. Seshu Kumar. "Modeling of Thermal Runaway of Ammonium Nitrate Decomposition", Diary No-6721/2022-CO/SW, filing date: 29-03-2022, Copyright office, Government of India.

#### RESEARCH WORK

Title- Modeling of Thermal Runaway of Dinitrotoluene to Trinitrotoluene, Ammonium Nitrate Decomposition and Trinitrotoluene Equivalence\*

Publications:

1. TouseefAhamad M., Seshu Kumar A., Prasad A.M.K. (2020) Mathematical Prediction of Thermal Runaway Conditions During the Nitration of DNT to TNT. In: Vijayaraghavan L., Reddy K., JameelBasha S. (eds) Emerging Trends in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. [https://doi.org/10.1007/978-981-32-9931-3\\_54](https://doi.org/10.1007/978-981-32-9931-3_54)
2. Touseef Ahamad Md, Prof. Prasad A. M. K and Dr. Seshu Kumar, A. (2021). "Mathematical Prediction of Thermal Runaway Conditions of Ammonium Nitrate Decomposition" 6(3), International Journal of Mechanical Engineering, ISSN: 0974-5823, pp.2871-2878. Vol. 6 No. 3 (December, 2021)
3. **Md. TouseefAhamad**Prediction of Runaway during the Nitration of DNTto TNT Mathematically-A Review*ISSN[ONLINE]: 2395-1052, IJSART - Volume 2 Issue 8 –AUGUST 2016, pp.68-70*

#### RESEARCH INTEREST

Manufacturing, CFD, Thermo Fluids, Composite Materials, FEA, Engineering Mechanic & Bio-Mechanics, Unmanned Aerial Vehicles.

#### INTERNATIONAL PAPERS PUBLISHED IN SCOPUS INDEXED JOURNALS

1. **Md Touseef Ahamad**, Syed Khaja Naimuddin, Mechanical Properties of Friction Stir Welding Joints of Similar &DisimilarAluminium Alloys Aa6061 & 6082. ISSN Print: 0976-6340 and ISSN Online: 0976-6359,*International Journal of Mechanical Engineering andTechnology*, 7(4), 2016, pp. 256–266.
2. **Md. Touseef Ahamad**,Syed Khaja Naimuddinetc. "Wear Behaviour of Welded and Non-Welded samples of Friction Stir Welding of Similar and Dissimilar Joints of Aluminium Alloys (AA6061-AA6061), (AA6082-AA6082) & (AA6061-AA6082) Under T6 Condition", *ISSN Online: 0976-6359, International Journal of Mechanical Engineering and Technology (IJMET) Volume 7, Issue 4, July-*

Aug 2016, pp.289–299.

3. **Md. Touseef Ahamad**, Syed Khaja Naimuddin (2016). Analysis of Wear Behaviour of the Friction Stir Welded Joints with Varying Track Diameters for Non-Welded and Welded Samples. Indian Journal of Science and Technology. 9. 10.17485/ijst/2016/v9i41/100936.
4. **Md. Touseef Ahamad**, “Modeling and Manufacturing Of Green Go-Kart” International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 7, Issue 3, Jun 2017, 233-248
5. **Md. Touseef Ahamad**, G. Ashok reddy etc. “Effect of Hardener size and content in self setting sand systems-A Nishiyama Approach”, Materials today, Proceedings, Volume 18, Issue P1, 2019, ISSN 2214-7853.
6. **Md. Touseef Ahamad**, Dr. A Seshu Kumar, Prof. AMK Prasad.” Mathematical Prediction of Thermal Runaway Conditions During the Nitration of DNT to TNT', Emerging Trends in Mechanical Engineering, Ebook IISN 978-981-329-931-3, Series IISN 2195-4356, Springer Singapore.
7. **Md. Touseef Ahamad**, Deepthi M. (2020) “Clean Development Mechanism and Green Economy”. In: Ghosh S. (eds) Waste Management as Economic Industry Towards Circular Economy. Springer, Singapore, 14 March 2020. [https://doi.org/10.1007/978-981-15-1620-7\\_5](https://doi.org/10.1007/978-981-15-1620-7_5)
8. Touseef Ahamad Md, Prof. Prasad A. M. K and Dr. Seshu Kumar, A. (2021). “Mathematical Prediction of Thermal Runaway Conditions of Ammonium Nitrate Decomposition” 6(3), International Journal of Mechanical Engineering, ISSN: 0974-5823, pp.2871-2878. Vol. 6 No. 3 (December, 2021)

#### INTERNATIONAL PAPERS PUBLISHED UGC & OTHER JOURNALS

1. Bonam Jagadeesh, Md. Touseef Ahamad “Design And Structural Analysis of Chain Dragging Boat Frame” The International journal of analytical and experimental modal analysis Volume XI, Issue VIII, August/2019, Page No: 2116-2122, ISSN NO: 0886-9367.
2. Ch. Bharath , K. Sreedevi, Md. Touseef Ahamad “Modelling And Simulation of Fire Alarm Protector By Using Plastics” The International journal of analytical and experimental modal analysis Volume XI, Issue VIII, August/2019, Page No: 2123-2130, ISSN NO: 0886-9367
3. G. Venkateswarlu, T. Suseela, Md. Touseef Ahamad “Design And Analysis of Kinematic And Morphological Aspects of Biomechanics Of The Human Lumbar Spine” The International journal of analytical and experimental modal analysis Volume XI, Issue VIII, August/2019, Page No: 2131-2139, ISSN NO: 0886-9367
4. M. Sindhuja<sup>1</sup> , Md. Touseef Ahamad<sup>2</sup> , Dr. P. C. Jain<sup>3</sup> , P. Narendra Mohan<sup>4</sup> , B. Purna Chandhra Sekhar<sup>5</sup> “Stress and Buckling Based Design for a Hemispherical Dome” International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 5 Issue VIII, August 2017
5. B. Tejasree<sup>1</sup> , Md. Touseef Ahamad<sup>2</sup> , Abhishek kumar<sup>3</sup> , P. Narendra Mohan<sup>4</sup> , B. Purna Chandra sekhar<sup>5</sup> “Formability of Copper Sheet Metal in Deep Drawing” International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 5 Issue VIII, August 2017
6. **Md. Touseef Ahamad** Prediction of Runaway during the Nitration of DNT to TNT Mathematically- A Review *ISSN [ONLINE]: 2395-1052, IJSART - Volume 2 Issue 8 – AUGUST 2016, pp.68-70*
7. **Md. Touseef Ahamad**, A. Rama Devi etc. “Metallurgical Characterization of Friction Stir Welding

- Joints of AA6061-AA6061, AA6061-AA6082 & AA6082-AA6082 Under T6 Condition”, *ISSN*[ONLINE]: 2395-1052, *IJSART - Volume 2 Issue 8 –AUGUST 2016*, pp. 71-76.
8. **Md. TouseefAhamad**, K.Danaiah etc. “Parametric Optimization of Wear Behavior of Friction Stir Welded Dissimilar Joints Aluminum Alloys (AA6061 – AA6082)”, *ISSN* [ONLINE]: 2395-1052, *IJSART - Volume 2 Issue 8 –AUGUST 2016*, pp.83-89.
  9. **Md. TouseefAhamad**, V.Venkatesu etc. “Markov Chain Analysis of Pitting Corrosion in Underground Gas Transmission Pipelines to Prevent from the Failures”, *ISSN* [ONLINE]: 2395-1052, *IJSART - Volume 2 Issue 8 – AUGUST 2016*, pp 77-82
  10. **Md. TouseefAhamad**, B.V.V.NagaSudhakar etc. “Modeling and simulation of Convergent-Divergent Nozzle Using Computational Fluid Dynamics”, e-ISSN: 2395 -0056, *IRJET- Volume: 03 Issue: 08 - Aug-2016*, pp.346-350.
  11. **Md. TouseefAhamad**, M.Dinesh Kumar etc. “Static Analysis of Wheel Rim Using CATIA AND ANSYS16.0”, e-ISSN: 2395 -0056, *IRJET-Volume: 03 Issue: 07 - July-2016*, pp.2256-2261.
  12. **Md. TouseefAhamad**, P.Anil Kumar etc. “Design and Modal Analysis of Turbine Compressor Blade by FEM”, *IRJET-Volume: 03 Issue: 09 - September-2016*.
  13. **Md. TouseefAhamad**, K.Sowmya Joshi etc. “Recycling and Analysis of Spent Engine Oil”, *ISSN 2229-5518, Volume 6, Issue 11, International Journal of Scientific & Engineering Research (IJSER), November-2015*, pp. 711-717.

#### LIST OF PAPERS PRESENTED IN CONFERENCES

1. Presented a Paper in National Conference on “Sustainable Rural Livelihood through Social, Financial and Technological Interventions: Policies, Pathways and Tools” organised by Department of Veterinary & Animal Husbandry Extension Education, College of Veterinary Science, Tirupati from 14<sup>th</sup> to 15<sup>th</sup> September, 2023.
2. Presented a paper in 11th IconSWM-CE & IPLA Global Forum 2021 held from Dec 01-04, 2021
3. Presented a paper in 10th IconSWM-CE 2020 held from Dec 2-7, 2020
4. Presented a paper on Mathematical Prediction of Thermal Runaway Conditions During The Nitration Of DNT To TNT, ICETME-2018, December 20-22, 2018, at Srinivasa Ramanujan Institute of Technology (SRIT), Ananthapur, Andhra Pradesh, India
5. Presented a paper on Clean Development Mechanism and Green Economy, 8th IconSWM 2018, November 22-24, 2018, at Acharya Nagarjuna University (ANU), Guntur, Vijayawada, Andhra Pradesh, India
6. Presented a paper on Effect Of Hardener Size And Content In Self Setting Sand Systems – A Nishiyama Approach, G.AshokReddy, Md Touseef Ahamad, M.Gopi Krishna, NRMR Bhargava at ICAMME-2018 at Acharya Nagarjuna University, 22-24 Jan 2018
7. Presented a paper on “Analysis of Wear Behaviour of Welded and Non-Welded Samples of Friction Stir Welding with Varying Track Diameter” 2<sup>nd</sup> International Conference on Design, Analysis, Manufacturing & Simulation, ICDAMS 2016, 7-8 April 2016

#### LIST OF CONFERENCES ATTENDED

1. Attended five days Technology Transfer & Commercialisation Training from 13-17<sup>th</sup> September, 2019 at Hyderabad conducted by DBT-NBM, BIRAC and STEM.
2. Attended a ‘TRUST’ CGIAR platform for BIG Data in Agriculture from 16-18<sup>th</sup> October 2019 at ICRISAT, Patancheru, Hyderabad. Conducted by International Centre for Tropical Agriculture (CIAT) and the International Food Policy Research Institute (IFPRI).

3. Attended an AGRI PRENEURSHIP (SANKALP-2020) held virtually from 30-01-2021-06-03-2021 organized by ANGRAU-AIED Cell, RARS, Tirupati.
4. Attended 3 days Capacity Development program CDP 2023 – Impact of Industry and institute Collaboration to enhance the employability of students from 28<sup>th</sup> to 30<sup>th</sup> April 2023, Visakhapatnam for TPO's conducted by APTPO Consortium and GVPCE.

#### COURSES TAUGHT

Course Number & Title	UG Level / PG Level	Year taught
ME107/ME114/ME124- Engineering Mechanics	UG Level	2012,2013,2014,2015,2016,2017,2018 , 2020, 2021, 2022, 2023
ME108/ME116/ME126-Engineering Drawing	UG Level	2012,2013,2014,2015,2016,2017,2018 ,2019,2020,2021, 2022, 2023
ME213-Mechanics of Materials-I	UG Level	2012,2013,2014,2015, 2016,2017,2018,2019,2020, 2021, 2022, 2023
ME223-Mechanics of Materials-II	UG Level	2012,2013,2014,2015, 2016,2017,2018,2019,2020, 2021, 2022, 2023
ME323-Machine Dynamics	UG Level	2016
ME326- Design Thinking for Innovation	UG Level	2023
ME416/ME413/MD612/MD512- Finite Element Analysis	UG Level /PG Level	2013,2014,2015,2016,2017,2018,2019 ,2020, 2021, 2022, 2023
MD525/MD621- Mechanics of Composite Materials	PG Level	2014,2015,2016,2017,2018,2019, 2020, 2021, 2022, 2023
AR115- Structural Mechanics-I (Guest Faculty at College of Architecture & Planning, ANU)	UG Level	2013,2014,2015,2016
AR125- Structural Mechanics-II (Guest Faculty at College of Architecture & Planning, ANU)	UG Level	2013,2014,2015,2016

#### PARTICIPATION IN UNIVERSITY & OTHER ACTIVITIES

1. Organizing member for two day National Workshop on Composite Materials for Bio-Medical Applications conducted by Department of Mechanical Engineering, Acharya Nagarjuna University, 27<sup>th</sup> -28<sup>th</sup> March 2023, sponsored by UGC.
2. Organizing member for Two day National seminar on Recent Advances in Composite Materials, conducted by Department of Mechanical Engineering, Acharya Nagarjuna University, 24-25<sup>th</sup> March 2023, sponsored by UGC.
3. Participated in the 6-day “Master Training Program” for the Community Service Project during October –November 2022.
4. Participated in Applied Robotic Control Faculty Development Program held on 26<sup>th</sup> August 2022 under the initiative of “ Indo-European Skilling Cluster for Mechatronics and Manufacturing” by Indo-Euro Synchronization at Igus India Pvt. Ltd, Bengaluru, India.
5. Exhibited an Innovative product Agroprobe at Innovation Bazaar at TRUST’ CGIAR platform

for BIG Data in Agriculture from 16-18<sup>th</sup> October 2019 at ICRISAT, Patancheru, Hyderabad. Conducted by International Center for Tropical Agriculture (CIAT) and the International Food Policy Research Institute (IFPRI).

6. Zonal Coordinator for organizing a Electrothon-2018 a state level hackathon at our university organized by Government of Andhra Pradesh.
7. In-charge for one of the Seminar Hall for organizing Sessions at the 100<sup>th</sup> IEA conference at ANU.
8. Given a Project Demonstration and Presentation at North Eastern Space Application Centre, Umima, Meghalaya.
9. Participated as a Mentor at SheBuildsTechGirls Hackathon at Vizag along with our students.
10. Modeled and Manufactured a Green Go Kart a Solar Go Kart.
11. Organizing member for One week FDP onRecent advances inmetal matrixcomposites from 21-25, January,2019 at Acharya Nagarjuna University sponsored by UGC
12. Organizing member for Intenational Conference on Advances in Materials & Manufacturing Engineering, ICAMME-2018, 24-25<sup>th</sup> January 2018, sponsored by UGC.
13. Exhibited an innovative projects and Startup Ideas at StartAP-2017 fest at Vijayawada.
14. Exhibited the innovative projects and Startup Apps at 104<sup>th</sup> Indian Science Congress on behalf of Acharya Nagarjuna University.
15. One of the team members from the university to participate and doing the NAAC work during 2016.
16. Coordinator from Department of Mechanical Engineering for organizing industrial visits for UG-students.
17. Time-Table In-charge to prepare all the Time-Tables for UG/PG Students
18. Observer and Rout Officer for AP EAMCET-2013,2014 & 2016
19. Observer for GPAT-2014
20. Observer for JEE MAINS-2016 and UGC NET-2016, UGC NET-2017.
21. Organizing member for UGC Sponsored national seminar on Advances in Metal Matrix Composites-2014, 2015
22. Faculty Coordinator for ANUSODHANA 2018, 2019 a National Level Student Technical Symposium at ANUCET, ANU

#### **TECHINACAL SKILLS**

- Programming Language : C, C++.
- Technical Software : Solid Works, ANSYS, AUTOCAD, PRO-E, ABAQUS and MATLAB
- Application Packages : Microsoft Office

#### **COURSE DONE**

**TITLE** : QC & EI (QUALITY CONTROL & ENGINEERING INSPECTION)

**INSTITUE** :DONE AT ATI (ADVANCE TRAINING INSTUITE), VIDYA NAGAR, HYDERABAD.

#### **PERSONAL SKILLS**

- 1 I am organized & planned and self-confident.
- 2 Comprehensive problem solving abilities, ability to deal with people Efficiently

- 3 Willingness to learn and Team facilitator
- 4 Highly efficient & Hardworking

#### PERSONAL DOSSIER

Father's Name : Mohammed Razack  
Address : F.No-401, Prasanka Classic, Near Noor Anwar,  
IndraNagar,Vijaya Nagar Colony, Hyderabad.  
Date of Birth : 23/08/1987  
Passport no : H3621935.  
Languages Known : English, Hindi, Telugu and Urdu  
Nationality : Indian  
Marital Status : Married

LinkedIn Profile

[https://www.linkedin.com/in/touseef-ahmed-73b20914?utm\\_source=share&utm\\_campaign=share\\_via&utm\\_content=profile&utm\\_medium=android\\_app](https://www.linkedin.com/in/touseef-ahmed-73b20914?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app)

Google Scholar

<https://scholar.google.com/citations?user=uFJJpGEAAAJ&hl=en>

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=57191989570>

#### Contact Information of the Referees

1. Dr. A. Seshu Kumar.  
Senior Principal Scientist and Head  
Engineering Service Division  
CSIR, IICT, Hyderabad.  
Mobile No: 9440802791, E-mail:[seshu.avadhanam@gmail.com](mailto:seshu.avadhanam@gmail.com)
2. Dr. M.Madhavi  
Professor & HOD,  
Department of Mechanical Engineering  
MVSr Engineering College.  
Hyderabad.  
Mobile No: 9642043570,E-mail:[hod\\_mech@mvsrec.edu.in](mailto:hod_mech@mvsrec.edu.in)
3. Prof. E. Sreenivasa Reddy.,Ph.D.,  
Principal,  
University College of Engineering & Technology,  
Acharya Nagarjuna University,Guntur.  
Mobile No: 7893111985, E-mail: [esreddy67@gmail.com](mailto:esreddy67@gmail.com)



Mohd. Touseef Ahmed.

Date: 13/11/2023

Place: Guntur