# CURRICULUM VITAE

## BASIC INFORMATION


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|---|---|---|
| Name | : | **MD SHAMIM SHAH** |
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## CAREER OBJECTIVE

Looking for a position of academic and research associate or post-doc in the field of micro-EDM, numerical modeling and analysis of process stability and performance measures, where I can utilize my skills to get new insights.

## RESEARCH INTERESTS

- Design and development of experimental set-up
- High-speed camera and Image processing
- Numerical Modeling; COMSOL
- LabVIEW software (Pulses waveform nature)

## ACADEMIC QUALIFICATION

- Doctor of Philosophy in Mechanical Engineering (Thesis Submitted)
  Institute: Indian Institute of Technology Patna, Bihar 801106, India
  Dissertation topic: "Improving micro-EDM dressing process stability: Assessment through monitoring debris evacuation in real-time during machining of Ti-6Al-7Nb"
  Advisor: Dr. Probir Saha
  Associate Professor, IIT Patna
- Master of Technology in Computer Integrated Design and Manufacturing (June, 2014)
  Institute: National Institute of Technology Jamshedpur, Jharkhand 831014, India
  Dissertation topic: "Metal cutting optimization"
  Overall CGPA: 8.23/10
- Bachelor of Technology in Mechanical Engineering (June, 2010)
  Institute: Apex Institute of Engineering and Technology, Jaipur, Rajasthan 302022, India
  Overall Marks: 71.93% (Honours)
- Intermediate ($12^{th}$) in Science (May, 2006)
  Board: Central Board of Secondary Education
  Overall Marks: 71.20% ($1^{st}$ division)
- Secondary School examination ($10^{th}$) (May, 2004)
  Board: Central Board of Secondary Education
  Overall Marks: 62.20% ($1^{st}$ division)

## JOURNAL PUBLICATIONS

- **Shah MS**, Saha P. Investigation on performance characteristics of micro-EDM dressing for the fabrication of micro-rod (s) on Ti-6Al-7Nb biomedical material. Machining Science and Technol., 2021, 25(3): 398-421. (IF: 2.255).
- **Shah MS**, Saha P. Assessment of vibration-assisted micro-EDM dressing process-stability by monitoring and analyzing debris evacuation during Ti-6Al-7Nb machining. Journal of Manufacturing Processes., **2021**, 66:250-268. (IF: 5.010).
- **Shah MS**, Gupta D, Saha P, Assam A, Sarkar C. A novel flushing technique to improve micro-EDM dressing process stability: assessment through monitoring debris in real-time during machining of Ti-6Al-7Nb. International Journal of Machine Tools and Manufacture. (**Under Review**).

## INTERNATIONAL CONFERENCE PROCEEDINGS

- **Shah MS**, and Saha, Probir, "Investigation and evaluation of erosion efficiency in micro-EDM dressing of biocompatible Ti-6Al-7Nb material", In Proceedings of the 7th International & 28th All India Manufacturing Technology, Design and Research Conference (AIMTDR) 2018, Anna University, Chennai-600025, India, 13-15 December 2018.
- **Shah MS**, and Probir Saha, "Online Experimental Characterization of Micro-EDM Dressing on Ti6Al7Nb Biomedical Material", In National Conference on Advanced Materials, Manufacturing and Metrology (NCAMMM-2018), pp. 68, CSIR-CMERI, Durgapur, India, 16- 17 February, 2018.
- **Shah MS**, and Saha, P., "Performance analysis of vibration-assisted Micro-EDM dressing", In Proceedings of the 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10), pp. 9-12, IIT Madras, India, 7-9 December, 2017.

## BOOK CHAPTER

- **Shah MS**, Saha Probir. (2019) Investigation and Evaluation of Erosion Efficiency in Micro- EDM Dressing of Biocompatible Ti6Al7Nb Material. In book: Advances in Micro and Nano Manufacturing and Surface Engineering. Springer, Singapore, pp 309-317.

## PROFESSIONAL EXPERIENCES

| Designation | Institute/ Organization | Duration |
|---|---|---|
| Design and Q.C Engineer | KEC INTERNATIONAL LIMITED, Jaipur, Rajasthan | July, 2010 to May, 2012 |
| Visiting Assistant Professor | Pratap Institute of Technology and Science, Sikar, Rajasthan | July, 2014 to Jan, 2015 |
| Assistant Professor | Pratap Institute of Technology and Science, Sikar, Rajasthan | Jan, 2015 to June, 2015 |

## TECHNICAL SKILLS

- Technical software : COMSOL Multiphysics
- CAD and Analysis Packages : PTC-Creo

## SPECIALIZATION IN ENGINEERING DOMAIN

- CAD
- CAM
- Robotics & Robot Applications
- System Optimization & Management

## REFERENCES

1. Dr. Probir Saha
   (Associate Professor)
   Dept. of Mechanical Engineering
   Indian Institute of Technology Patna, India
   Phone: +91-6115-233006
   Email: psaha@iitp.ac.in

2. Dr. Karali Patra
   (Professor)
   Dept. of Mechanical Engineering
   Indian Institute of Technology Patna, India
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3. Dr. Sudhansu Sekhar Panda
   (Associate Professor)
   Dept. of Mechanical Engineering
   Indian Institute of Technology Patna, India
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4. Dr. Manoranjan Kar
   (Associate Professor)
   Dept. of Physics
   Indian Institute of Technology Patna, India
   Phone: +91-612-302 8013
   *Email:* mano@iitp.ac.in

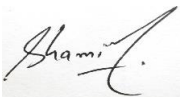
## PERSONAL INFORMATION

- Date of Birth : 14th July, 1986
- Contact Address : Bardparva, Vardparwa, Jagdishpur, Bhojpur, Bihar 802158, India
- Home Town : Jagdishpur (Bihar)
- Nationality : Indian
- Languages Known : English, Hindi and Bhojpuri

## DECLARATION

The above mentioned information is true and correct to the best of my knowledge and belief.

Yours Faithfully



MD Shamim Shah

Place : IIT Patna, Bihta
Date : 30th April, 2022