

CURRICULUM VITAE

GAUTAM KUMAR

Ph. D (Mechanical Engineering)

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OBJECTIVE

I aspire to work in an organization that provides exposure and opportunities to grow in my skills and carrier, seeking to work under challenging and growing environment that offers professional growth while being resourceful, innovative and flexible.

ACADEMIC DETAILS

Qualification	Year of Passing	Board/University	Institute	Aggregate	Class/Division
Ph. D (Mechanical)	2021	NIT, Patna	NIT, Patna	9.00 (CGPA)	First
M. Tech. (ME)	2015	ISMU Dhanbad	IIT (ISM) Dhanbad	8.33 (CGPA)	First
B. Tech. (Mechanical)	2012	AKU Patna	MIT, Muzaffarpur	74.67 %	First
Intermediate (12 th)	2006	BIEC Patna	College of Commerce, Patna	60 %	First
Matric (10 th)	2004	BSEB Patna	High School, Hilsa	74.57 %	First

Thesis

Ph. D: Formability analysis of tailored blanks in single point incremental forming

M Tech: Electroless Ni-P coating on mild steel substrate

Research areas: Formability analysis in sheet metal forming.

Subjects of Interest for Teaching: Manufacturing process, Workshop Technology, and Fluid Mechanics

Experimental Skills: Formability tests for sheet metal forming, Tensile testing, Scanning Electron Microscopy, Microhardness testing, Energy Dispersive X-Ray Spectroscopy (EDS), Wire EDM etc.

Software Skills: MATLAB, Minitab 17, ABAQUS, ImageJ, MS office etc.

RESEARCH PUBLICATIONS

International Journal Papers

1. G. Kumar, and K. Maji, Investigations on improved formability of AA5083 sheet in single point incremental forming. *Journal of Materials Engineering and Performance*, 2021; 30:1289–1305. (***SCI Indexed; Impact Factor: 1.819***)
2. K. Maji, and G. Kumar, Inverse analysis and multi-objective optimization of single-point incremental forming of AA5083 aluminum alloy sheet. *Soft Computing*, 2020; 24:4505–4521. (***SCI Indexed; Impact Factor: 3.643***)
3. G. Kumar, and K. Maji, Investigations on formability of tailor laminated sheets in single point incremental forming, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2022. <https://doi.org/10.1177/09544054221076244>. (***SCI Indexed; Impact Factor: 2.610***)
4. G. Kumar, and K. Maji, Forming limit analysis of friction stir tailor welded AA5083 and AA7075 sheets in single point incremental forming, *International Journal of Material Forming*, 2022. <https://doi.org/10.1007/s12289-022-01675-7>. (***SCI Indexed; Impact Factor: 2.028***)
5. G. Kumar, and K. Maji, Formability of AA7075 sheet in single point incremental forming, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, 2021; 11 (2):40-54. (***Scopus Indexed; Impact Factor: 0.81***)
6. K. Maji, S. Kumar, and G. Kumar Experimental study on the effects of incremental forming and friction stir welding on formability of AA5083 sheet, *Journal of Physics: Conf. Series*, 2019; 1240, 012090. (***Scopus indexed; Impact Factor: 0.55***)

International Conferences Proceedings

1. G. Kumar, and K. Maji (2018) Strain- and Stress-based forming limit curves for DP 590 steel sheet using Marciniak-Kuczynski method, Advances in Mechanical Design, Materials and Manufacture. AIP conf. Proc. 1943, 020008-1-020008-9. *NIT Surathkal, 29-31 Jan. 2018. (Scopus indexed)*
2. G. Kumar, Saurabh, M. Roshan, K. Nandan, and K. Maji (2019) An Experimental Study on Single-Point Incremental Forming of AA5083 Sheet Using Response Surface Methodology. In: Shunmugam M., Kanthababu M. (eds) Advances in Forming, Machining and Automation. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore., *AIMTDR, Anna University, Chennai 2018. (Scopus indexed)*
3. G. Kumar, D. Kumar and K. Maji (2018) Theoretical and experimental prediction of forming limit curve for aluminium alloy AA5083 sheet, International Conference on Advances and Soft Computing Applications in Design and Manufacturing (ASCADM-2018), *NIT Patna, 2018.*
4. G. Kumar, and K. Maji, (2019) Formability of polymeric sheet in single point incremental forming, International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-11), *IIT Indore, 12-14 Dec. 2019.*
5. K. Maji, and G. Kumar (2022) A Review on Formability of Tailored Sheets in Incremental Forming, In: Agrawal, A., Kakandikar, G., and Kumar, D. R. (eds) Metal Forming Processes: Developments in Experimental and Numerical Approaches. CRC Press, p 225-232. DOI: 10.1201/9781003226703-14.

SHORT TERM COURSES Attended

- Recent Trends in Friction stir Processing Technique (RTFSP 2019), 18-20 December 2019, IIT Patna.

INDUSTRIAL/ VOCATIONAL TRAINING

- Four weeks Training at **Bharat Wagon & Engineering Company Limited**, Muzaffarpur during November 2010.

- Two weeks Training at **Patratu Thermal Power Station**, Patratu, Ranchi during July 2010.
- Four weeks VT on CATIA V5R-18 at **Indo Danish Tool Room**, Jamshedpur during September 2009.
- A webinar on “Formability in Single Point Incremental Forming” was presented at Government Polytechnic Siwan on 4 July 2021.

REVIEWER

- Reviewer of Journal of the Brazilian Society of Mechanical Sciences and Engineering

GUEST ASSISTANT PROFESSOR

- Currently working as a Guest Assistant Professor in Government Engineering College, Samastipur (Under DST Govt. of Bihar), Bihar.

REFERENCES

1. **Dr. Kuntal Maji**, Assistant Professor, Mechanical Engineering Department, NIT Patna, India
(Contact No- +91-9162164775, Email: kmaji@nitp.ac.in)
2. **Dr. Alok Kumar Das**, Associate Professor, Mechanical Engineering Department, IIT (ISM) Dhanbad, India
(Contact No- +91-326-223-5748, Email: alokmech@iitism.ac.in)
3. **Prof. (Dr.) Ramakar Jha**, Professor, Civil Engineering Department, NIT Patna, India
(Contact No- +91 8544401806, Email: rj@nitp.ac.in)

PERSONAL INFORMATION

Name : Gautam Kumar

Father's Name : Paras Nath Sinha

Mother's Name : Aruna Devi

Date of Birth : 16th February 1990

Marital Status : Unmarried

Languages Known : English, Hindi

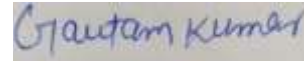
Nationality : Indian
Hobbies : Cricket, Travelling
Strength : Hard working, Honesty & Loyalty
Permanent Address : Arya Samaj Road, Hilsa
Nalanda, (Bihar), India
PIN- 801302

DECLARATION

I do hereby declare that the information furnished above is true to the best of my knowledge.

Date: 02/05/2022

Place: Muzaffarpur



(Dr. Gautam Kumar)