

Vishal Sharma

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SKILLS & TECHNIQUES

Programming Languages	: Python, Fortran, C++, MATLAB
Engineering Softwares	: Ansys- CFD Workbench, CATIA, Tecplot, Paraview
Data Analytics	: SQL, RDBMS, Tableau, Python libraries- matplotlib, numpy, scipy, tkinter, pandas and seaborn
Office Tools	: Microsoft Suite, Google Suite
Operating Systems	: Windows, UNIX
Development Environments	: Eclipse, Jupyter Notebook, MS Visual Studio, GitHub

PROFESSIONAL EXPERIENCE

Freelancing Consultant Self-employed	December 2020 – Present
Postdoctoral Research Associate Texas A&M University, College Station, TX, USA	June 2020 – September 2020
Graduate Research Assistant Wichita State University, Wichita, KS, USA	August 2016 – May 2020
Research Intern Sanden Vikas India Limited, Faridabad, India	December 2013 – May 2014
Founder/President Shock-Tech at Wichita State University, Wichita, KS, USA	
Graduate Assistant Wichita State University Libraries, Wichita, KS, USA	June 2015 – August 2017
Data Analyst Yes Bank Limited, Gurgaon, India	August 2011 – March 2012
Data Analyst ICICI Bank Limited, Mumbai, India	August 2008 – July 2011

EDUCATION

Wichita State University, Wichita, KS, USA Doctor of Philosophy, Aerospace Engineering	August 2014 – May 2020
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Amity University, Noida, India
Master of Technology, Automobile Engineering

August 2012 – June 2014

Rajiv Gandhi Technological University, Bhopal, India
Bachelor of Engineering, Mechanical Engineering

August 2004 – June 2008

PUBLICATIONS/PRESENTATIONS:

- **Sharma, V.**, and Hoffmann, K.A., "[Solution of Maxwell's Equations Using Fourth-Order Modified Runge-Kutta Scheme on Transformed Coordinates](#)," *2020 AIAA SciTech Forum*, Orlando FL, AIAA 2020-2155, January 2020.
- **Sharma, V.**, "[Numerical Solution of Maxwell's equations on transformed coordinates for non-rectangular electromagnetic applications](#)," Ph.D. Dissertation, Wichita State University, May 2020.
- **Sharma, V.**, and Hoffmann, K.A., "[Solution of Maxwell's Equations for Non-Rectangular Electromagnetic Applications](#)," *AIAA Journal of Thermophysics and Heat Transfer*, Published Online 18 September 2020.

AWARDS & GRANTS

Special Research Fellowships – Student Travel September 2019
Awarded by - Graduate School, Wichita, State University, Wichita, KS

Conference Travel Grant November 2019
Awarded by - Student Government Association, Wichita, State University, Wichita, KS

2017 Lee and Carolyn Riley Distinguished Graduate Assistantship May 2017
Awarded by - Wichita State University Libraries, Wichita, KS

Shocker Innovation Corps January 2017
Awarded by - WSU Ventures and National Science Foundation (NSF) I-Corps

Best Student Internship Project August 2013
Amity University, for Internship at Tata Motors, India

Passed with Distinction in MS degree June 2014
Amity University, India

PROFESSIONAL AFFILIATIONS

Member, American Institute of Aeronautics and Astronautics (AIAA)