Abhijeet Parida

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Education

Technical University of Munich   *Munich, Germany*

M.S. in Computational Science and Engineering, GPA- 2.4*   *Oct 2016- till date*
- Programming Course- Numerical Programming Scientific Computing, Parallel Programming
- Machine Learning Course- Data Mining, Engineering Data Analysis, Statistical Modelling and Machine Learning

Amrita School of Engineering (Amrita Viswavidyapeetham,Coimbatore)   *Bangalore, India*

B.Tech in Mechanical Engineering,CGPA- 8.54/10** (First Class with Distinction(International Intern))   *Aug. 2012 - May 2016*
- Courses-Fundamental Algorithms, CAD/CAM, CAE

Experience

Wissenschaftliche Hilfskraft(Research Assistant)

Center for Energy Markets, TU Munich   *Oct. 2017- till date*
- Web Scrapping and Data Mining EURIBOR rates

Skills

Language	C/C++, CUDA, openMP, MPI, Python ,MATLAB, Julia, R, Arduino
Tools	Microsoft Office,CATIA , Ansys Workbench, openFOAM,LateX

Technical Projects

Total Variational Blind Deconvolution on CUDA

GPU Programming for Computer Vision, TU Munich   *May. 2017- Sept. 2017*
- Implementation of Blind Deconvolution of an image on CUDA.

Statistical Modeling of Bundesliga Football Matches

Statistical Modeling and Machine Learning, TU Munich   *Apr. 2017 - Jun. 2017*
- Best student project for SS2017.
- Predicted individual game outcomes based on the team performance of past 5 seasons using R

Monte Carlo Simulation Based Flood Forecast

Engineering Data Analysis, TU Munich   *Apr. 2017 - Jun. 2017*
- Predicted the chances of a flood using Monte Carlo.

Direct Numerical Simulation of Secondary Atomisation of a Drop in Air

Summer Intern,TU Munich   *Mar. 2016 - Oct. 2016*
- Parameter study on the We_c v/s Shock Strength in predeveloped C/C++ codes to simulate bubble breakup in air

Design and Analysis of a Mach 8 Waverider

Hypersonic Lab, Amrita University   *Oct. 2015-Mar. 2016*
- Helped setup the first Hypersonic Shock Tube in a private University in India
- Parameter study on the shapes and performance of a Mach 8 Waverider using ANSYS Workbench and verified results in ShockTube.

Opensource Contributions

QuantEcon.jl   Computational tools for economics and decision making in Julia

Extracurricular Activity

Cryosphere, WARR Raketentechnik   *TU Munich*

Member, Fluid Simulation Team   *Oct. 2017- till date*
- Simulation of Main Valve of LOX Tank in the Rocket Propulsion System

Ingenium, Forum of Mechanical Engineers   *Amrita University*

Secretary   *Aug. 2015-Aug. 2016*
- Organised tutorials and technical events from State to National level

Amrita Centre for Robotics and Mechatronics(ACROM)   *Amrita University*

Member   *Jan. 2013- Jan. 2016*
- Build small projects like line follower, Grid Solver and RC All Terrain Cars for Competitions

Honors & Awards

2015	**Finalist**, Poster Presentation, Indo-Dutch International Conference, Design for Sustainable Well Being	*Bangalore, India*
2014	**Second & Best Overall Concept** , All Terrain RC Car Race, Pravega, IISc	*Bangalore, India*
2014	**Third**, Grid Solver Robot, graVITas, VIT	*Vellore, India*

* GPA: 1,0 - 1,5 very good, 1,6 - 2,5 good, 2,6 - 3,5 satisfactory, 3,6 - 4,0 sufficient, 4,1 - 5,0 fail.   ** CGPA: 10-8 First Class , 8-6 Second Class,6- 5 Pass