

# Amal Nath

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IIT Madras  
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- PRESENT** Currently pursuing PhD in Mechanical Engineering under Prof. Ashis Kumar Sen at IIT Madras. I work on acoustophoresis in microchannels.
- EDUCATION**
- M.Tech in Mechanical Engineering** July 2015 - May 2017  
Indian Institute of Technology Gandhinagar, CGPA: 8.62/10.00
- B.Tech in Mechanical Engineering** July 2010 - May 2014  
National Institute of Technology Calicut, CGPA: 8.30/10.00
- AISSCE, Class XII** May 2010  
Vedavyasa Vidyalayam, CBSE, Percentage: 94.80/100
- AISSE, Class X** May 2008  
Vedavyasa Vidyalayam, CBSE, Percentage: 94.40/100
- COMPUTER SKILLS** *Languages & Software:* MATLAB, R, C++, Python, LaTeX, STAR-CCM+, OpenFOAM, ANSYS, CATIA, SolidWorks.  
*Operating Systems:* Ubuntu, Windows.
- PROJECTS**
- M. Tech Thesis* July 2016 - May 2017  
Numerical Modeling of Unsteady Flows over Side Weirs using STAR-CCM+  
Prof. Pranab Mohapatra, IIT Gandhinagar
- Developed a new relation for coefficient of discharge incorporating time-variation in the size of the side weir.
  - Proposed relations for salient features of steady flows like influenced width ratio, maximum velocity ratio at the weir section with pertinent non-dimensional parameters
- Summer Project* Apr 2016 - Jun 2016  
Developed a MATLAB Code using Smoothed Particle Hydrodynamics for standard Dam Break problem  
Prof. Pranab Mohapatra, IIT Gandhinagar
- B.Tech Project* July 2013 - Apr 2014  
Numerical Simulation of Frontal Head-on Collision of monocoque chassis with Stationary Wall Prof. Prabhakaran Nair, NIT Calicut
- OTHER SCORES** Score: 724/1000, GATE-2015  
Availed CBSE Scholarship for meritorious performance in AISSCE 2010
- EXTRA-CURRICULAR ACTIVITIES** Mech. Engg. Committee, Tathva 2012; Member, Quiz Club, NIT Calicut;  
Participant, inter-collegiate quizzes