

Aashutosh Mistry

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Transport processes are at the heart of every functioning system, living or artificial. Intrinsic properties of materials, as well as their specific geometrical arrangement, govern the efficacy of these processes. I am a continuum theoretician with a strong belief in controlled experimentation.

EDUCATION

Purdue University*

2017 – Doctor of Philosophy in *Mechanical Engineering*

GPA: **-/4.00**
(Lambert teaching
fellowship awardee)

Texas A&M University*

2015 – 2017 Doctor of Philosophy in *Mechanical Engineering*

GPA: **4.00/4.00**

Indian Institute of Technology Kanpur, India

2012 – 2014 Master of Technology in *Fluid and Thermal Sciences*
(Mechanical Engineering)

GPA: **10.00/10.00**
(Gold medalist)

Sardar Vallabhbhai National Institute of Technology Surat, India

2008 – 2012 Bachelor of Technology in *Mechanical Engineering*

GPA: **9.95/10.00**
(Gold medalist)

* Moved from A&M to Purdue in Fall 2017

AWARDS AND HONORS

1. *Featured news report on Thermal Cross-talk Research* (4th Dec 2017)
2. *Lambert Teaching Fellowship, School of Mechanical Engineering, Purdue University* (Spring '18 – Fall '18)
This prestigious and highly competitive fellowship is awarded to ME graduate students with an extraordinary research and academic accomplishment and who holds a potential for a career in academia.
3. *Reporter for MRS Fall '17 meeting* (27-30th Nov 2017)
To summarize and prepare press-briefs for talks that are of interest to a broader audience
4. *Reporter for MRS Spring '17 meeting* (17-21st Apr 2017)
To summarize and prepare press-briefs for talks that are of interest to a broader audience
5. *Reviewer for IEEE ITherm 2017 conference*
6. *Organizer and judge at Inaugural Texas A&M Energy Conference* (26-28th Sep 2016)
7. *Invited judge at Summer Undergraduate Research Poster Competition, Texas A&M University* (5th Aug 2016)
8. *Invited graduate student participant and tutorial lecturer at College of Multiscale Computational Modeling of Materials for Energy Applications, International Center for Theoretical Physics, Trieste, Italy* (4th Jul – 15th Jul 2016)
Modeling and Analysis of Electrochemical Performance of Lithium-Sulfur Batteries
9. *Invited participant at Indo-US Workshop on Recent Advances in Multiscale Multiphysics Analysis of Energy Conversion in Li-ion Batteries, IIT-Bombay, India* (17th Jun – 19th Jun 2016)
Long Range Interaction in Lithium-Ion Battery Electrodes
10. *Invited judge at Summer Undergraduate Research Poster Competition, Texas A&M University* (7th Aug 2015)
11. *First prize at Texas A&M Non-fossil based Technologies for Energy* (24th Jun 2015)
Investigating Chemical and Electrochemical Interactions during Discharge of a Lithium Sulfur Cell
12. *Organizer for IITK Student Research Convention* (9-10th Aug 2014)
Conceptualized, planned and organized a two-days conference at IIT Kanpur for undergraduate and graduate students. The conference had 4 invited lectures by IIT

- Kanpur professors, 32 oral presentations (8 sessions), 68 posters, and a small expo by start-ups being supported by IIT Kanpur.
13. *Sashi Pundir Meomrial Gold Medal* (Jun 2014 at IIT Kanpur)
For best Master's thesis in Fluid Mechanics and Transport Phenomena
 14. *Academic Excellence Award* (Feb 2014 at IIT Kanpur)
The certificate of merit for academic excellence in the Master of Technology program in Mechanical Engineering
 15. *Gold Medal* (Aug 2012 at SVNIT Surat)
For securing the 1st merit rank in Bachelor of Technology program in Mechanical Engineering
 16. *Smt. Laxmi Bala Majumdar Gold Medal* (Aug 2012 at SVNIT Surat)
For securing the 1st merit rank across all the disciplines of Bachelor of Technology program
 17. *Siddhartha Gupta Gold Medal* (Aug 2012 at SVNIT Surat)
For securing the 1st merit rank in Bachelor of Technology program in Mechanical Engineering
 18. *Siddhartha Gupta Gold Medal* (Aug 2012 at SVNIT Surat)
For securing the 1st merit rank across all the disciplines of Bachelor of Technology program

RESEARCH EXPERIENCE

Doctoral Thesis

Mesoscale Interactions in Porous Electrodes

Advisor: Dr. Partha Mukherjee (Purdue: Fall '17 onwards, A&M: Spring '15 – Summer '17)

Keywords: Intercalation (Li-ion) and conversion chemistry (Li-sulfur & Li-air batteries), Porous electrode theory, Polysulfide shuttle effect, Poromechanics, Electrode microstructure

Project Associate

Jun 2014 – Dec 2014 *AnuPravaha I*

Principal Investigator: Dr. Malay Das (IIT Kanpur)

Work description: To speed up *AnuPravaha I* – a general purpose structured CFD solver through code parallelization and faster matrix inverter

Master's Thesis

Generalized Lagrangian Model for Drop Spreading on Textured Surfaces

Supervisor: Dr. Krishnamurthy Muralidhar (IIT Kanpur)

Keywords: Surface tension, Contact line motion, Dynamic contact angle, Integral analysis

Bachelor's Project

Numerical and Experimental Investigation on Heat Transfer in Nanofluids

Guide: Dr. Jyotirmay Banerjee (SVNIT Surat)

Keywords: Thermal and hydrodynamic behavior of Nanofluids, Laminar, Incompressible flow, Natural convection, Forced convection, Nusselt number, Single-phase model, Two-fluid model, Semi-explicit Finite Volume Navier-Stokes solver

Journal Publications

1. **A. Mistry** and P. P. Mukherjee, *Analyzing Electrode Microstructural Heterogeneity and Electrochemical Implications in Lithium-ion Battery Cathodes*, Adv. Energy Mater. (under review)
2. **A. Mistry**, K. Smith, and P. P. Mukherjee, *Secondary Phase Stochastics in Li-ion Battery Cathodes*, Appl. Mater. Interface (under review)
3. **A. Mistry**, M. Balasundaram, P. Balaya and P. P. Mukherjee, *A Thermodynamically Consistent Method to Quantify Different Modes of Heat Generation in Li-ion Cells*, J. Power Sources (under review)

4. N. Kotak, P. Barai, **A. Mistry**, A. Verma and P. P. Mukherjee, *Electrochemistry-mechanics Coupling in Intercalation Electrodes*, J. Electrochem. Soc. (under review)
5. **A. Mistry** and P. P. Mukherjee, *Precipitation – Microstructure Interaction in Li-S Battery Cathode*, J. Phys. Chem. C 121 (47), 26256
6. C.-F. Chen, **A. Mistry** and P. P. Mukherjee (2017) *Probing Impedance and Microstructure Evolution in Lithium-sulfur Battery Electrodes*, J. Phys. Chem. C 121 (39), 21206
7. Z. Liu, **A. Mistry** and P. P. Mukherjee (2017) *Mesoscale Physicochemical Interactions in Lithium-sulfur Batteries: Progress and Perspective*, J. Electrochem. Energy Storage Conver. 15 (1), 010802
8. M. Stein IV, **A. Mistry** and P. P. Mukherjee (2017) *Mechanistic Understanding of the Role of Evaporation in Electrode Processing*, J. Electrochem. Soc. 164 (7), A1616
9. K. Shah, N. Balsara, S. Banerjee, M. Chintapalli, A. P. Cocco, W. K. S. Chiu, I. Lahari, S. Martha, **A. Mistry et al.** (2017) *State-of-the-art and Future Research Needs for Multiscale Analysis of Li-ion Cells*, J. Electrochem. Energy Storage Conver. 14 (2), 020801
10. G. J. Nelson, L. J. Ausderau, J. R. Buckley, S. Shin, **A. Mistry**, P. P. Mukherjee and V. De Andrade (2017) *Transport-geometry Interactions in Li-ion Cathode Materials Imaged using X-ray Nanotomography*, J. Electrochem. Soc. 164 (7), A1412
11. **A. Mistry**, D. Juarez-Robles, M. Stein and K. Smith, P. P. Mukherjee (2016) *Analysis of Long-range Interaction in Lithium-ion Battery Electrodes*, J. Electrochem. Energy Conver. Storage 13 (3), 031006
12. P. Barai, **A. Mistry** and P. P. Mukherjee (2016) *Poromechanical Effect in the Lithium-sulfur Battery Cathode*, Extreme Mech. Lett. 9 (3), 359-370
13. A. D. Dysart, J. C. Burgos, **A. Mistry et al.** (2015) *Towards Next Generation Lithium-sulfur Batteries: Non-conventional Carbon Compartments/ Sulfur Electrodes and Multi-scale Analysis*, J. Electrochem. Soc. 163 (5), A730-A741
14. **A. Mistry** and K. Muralidhar (2015) *Axisymmetric Model of Drop Spreading on a Horizontal Surface*, Phys. Fluids 27(9), 092103

In preparation Manuscripts

15. **A. Mistry** and P. P. Mukherjee, *Demystifying Physicochemical Evolution in Li-S Cathode: Concentrated Solution Effects and Chemical Reactions*, ACS Energy Lett.
16. **A. Mistry** and P. P. Mukherjee, *Electrodics Cross-talk: A Holistic Paradigm in Energy Storage*, Energy Environ. Sciences
17. **A. Mistry**, H. Reddy Pale, and P. P. Mukherjee, *In Operando Calorimeter-free Characterization of Heat Generation in Li-ion Cells*, J. Electrochem. Soc.

Book Chapters

1. P. P. Mukherjee, **A. Mistry** and A. Verma (2017) *Porous Media Applications: Electrochemical Systems*, in *Modeling Transport Phenomena in Porous Media with Applications*, eds. M. K. Das, P. P. Mukherjee, K. Muralidhar, Springer
2. P. P. Mukherjee, A. Verma, and **A. Mistry** (2017) *Mesoscale Interactions of Transport Phenomena in Polymer Electrolyte Fuel Cells*, in *Modeling Transport Phenomena in Porous Media with Applications*, eds. M. K. Das, P. P. Mukherjee, K. Muralidhar, Springer

Conference Proceedings

1. **A. Mistry** and K. Muralidhar, *Non-isothermal Spreading of Liquid Drops: Effect of Fluid Convection*, Asian Symposium on Computational Heat Transfer and Fluid Flow, November 2015
2. **A. Mistry** and K. Muralidhar, *Study of Front Tracking Methodology for Simulation of Multiphase Flow*, Proceedings of Fortieth National Conference on Fluid Mechanics and Fluid Power, December 2013
3. **A. Mistry**, A. Verma and M. K. Das, *Modeling of Polymer Electrolyte Membrane (PEM) Fuel Cell Cathode with Agglomerate Catalyst Layer*, Proceedings of Fortieth National Conference on Fluid Mechanics and Fluid Power, December 2013

4. **A. Mistry** and J. Banerjee, *A Comparative Analysis of Single-phase and Two-fluid Model for Nanofluid Heat Transfer in Forced Convection Regime*, Proceedings of Thirty Ninth National Conference on Fluid Mechanics and Fluid Power, December 2012

Presentations and Posters

1. **A. Mistry** and P. P. Mukherjee, *Thermal Cross-talk in Lithium-ion Battery Safety*, Materials Research Society Fall Meeting, Boston, MA (1st Dec 2017)
2. **A. Mistry** and P. P. Mukherjee, *Simulated Calorimetry based Thermal Characterization of Lithium-ion Cells*, International Mechanical Engineering Congress & Exposition – IMECE 2017, Tampa, FL (9th Nov 2017)
3. **A. Mistry** and P. P. Mukherjee, *Hysteresis in Li-S Battery Performance*, Advanced lithium Batteries for Automotive Applications – ABAA 2017, Oakbrook, IL (23rd Oct – 25th Oct 2017)
4. **A. Mistry** and P. P. Mukherjee, *Microstructural Limitations in Lithium-sulfur Battery Performance*, 232nd Meeting of Electrochemical Society, National Harbor, MD (4th Oct 2017)
5. **A. Mistry** and P. P. Mukherjee, *Non-intercalating Phases and Electrochemical Behavior of Lithium-ion Battery Cathode*, 232nd Meeting of Electrochemical Society, National Harbor, MD (4th Oct 2017)
6. **A. Mistry**, A. Verma, and P. P. Mukherjee, *Mesoscale Physics and Stochastics in Energy Storage*, Hawkins Lecture, Purdue Mechanical Engineering, West Lafayette, IN (21st Sep 2017)
7. **A. Mistry** and P. P. Mukherjee, *Virtual Electrode Engineering: From Mesoscale Underpinnings to System Characteristics*, Advanced Automotive Battery Conference – AABC 2017, San Francisco, CA (20th Jun 2017)
8. **A. Mistry** and P. P. Mukherjee, *Demystifying Microstructure Limitations in Li/S Cells: Surface Passivation vs. Pore Blockage*, Materials Research Society Spring Meeting, Phoenix, AZ (20th Apr 2017)
9. **A. Mistry** and P. P. Mukherjee, *Mesoscale Probing of Transport-Interface Interaction in Lithium-ion Battery Electrodes*, TMS 2017 146th Annual Meeting and Exhibition, San Diego, CA (1st Mar 2017)
10. **A. Mistry**, D. Juarez-Robles, and P. P. Mukherjee, *Thermo-electrochemical Analytics in Li-ion Battery Safety*, ESS Safety Forum 2017, Santa Fe, NM (22nd Feb 2017)
11. **A. Mistry**, Z. Liu and P. P. Mukherjee, *Mesoscale Modeling of Transport Limitations during Discharge of a Li-S cell*, 12th Annual Lithium Battery Power Conference, Bethesda, MD (2nd Nov 2016)
12. **A. Mistry**, *Modeling and Analysis of Electrochemical Performance of Lithium-Sulfur Batteries*, College of Multiscale Computational Modeling of Materials for Energy Applications, International Center for Theoretical Physics, Trieste, Italy (4th Jul – 15th Jul 2016)
13. **A. Mistry** and P. P. Mukherjee, *Improving Discharge Performance of Li-air Batteries with Electrode Microstructural Modifications*, College of Multiscale Computational Modeling of Materials for Energy Applications, International Center for Theoretical Physics, Trieste, Italy (4th Jul – 15th Jul 2016)
14. **A. Mistry**, C.-F. Chen, Z. Liu and P. P. Mukherjee, *Probing Polysulfide Shuttle Effect in the Li-S Battery*, International Meeting on Lithium Batteries – IMLB, Chicago, IL (17th Jun 2016)
15. **A. Mistry**, C.-F. Chen, Z. Liu and P. P. Mukherjee, *Mesoscale Modeling of Transport Limitations during Discharge of a Li-S Cell*, Indo-US Workshop on Recent Advances in Multiscale Multiphysics Analysis of Energy Conversion in Li-ion Batteries, IIT-Bombay, India (17th Jun – 19th Jun 2016)
16. **A. Mistry**, C.-F. Chen, A. Verma and P. P. Mukherjee, *Long Range Interaction in Lithium-Ion Battery Electrodes*, Indo-US Workshop on Recent Advances in Multiscale Multiphysics Analysis of Energy Conversion in Li-ion Batteries, IIT-Bombay, India (17th Jun – 19th Jun 2016)
17. **A. Mistry**, P. Barai, and P. P. Mukherjee, *Precipitation Induced Stress and Degradation in the Lithium-sulfur Battery Cathode*, 229th Meeting of Electrochemical Society, San Diego, CA (29th May – 2nd Jun 2016)

18. **A. Mistry**, A. Verma, R. Mukherjee and P. P. Mukherjee, *Image-based Reconstruction and Statistical Characterization of the Li-ion Battery Electrode Microstructure*, 229th Meeting of Electrochemical Society, San Diego, CA (29th May – 2nd Jun 2016)
19. **A. Mistry**, C.-F. Chen, Z. Liu and P. P. Mukherjee, *Mesoscale Modeling of the Physicochemical Interplay in the Li-sulfur Battery Porous Cathode*, Interpore 2016, Cincinnati, OH (8th May – 12th May 2016)
20. **A. Mistry**, A. Verma, D. Juarez-Robles and P. P. Mukherjee, *How Electrode Processing Affects Li-ion Battery Performance?*, Material Challenges in Alternative and Renewable Energy – MCARE 2016, Clearwater, FL (17th Apr – 21st Apr 2016)
21. **A. Mistry**, A. Verma, D. Juarez-Robles and P. P. Mukherjee, *Physicochemical Evolution Behavior in the Li-air Battery Electrode*, Material Challenges in Alternative and Renewable Energy – MCARE 2016, Clearwater, FL (17th Apr – 21st Apr 2016)
22. **A. Mistry**, P. Barai and P. P. Mukherjee, *A Two-way Coupled Mechano-Electrochemical Model for Estimating Active Material Degradation in Lithium-ion Battery Electrodes*, International Mechanical Engineering Congress & Exposition – IMECE 2015, Houston, TX (13th Nov – 19th Nov 2015)
23. **A. Mistry**, D. Juarez-Robles, F. Cano-Banda, A. Hernandez-Guerrero and P. P. Mukherjee, *Correlating Precipitation Morphology in the Air Electrode to the Lithium-air Battery Discharge Performance*, 52nd Annual Technical Meeting of Society of Engineering Sciences – SES 2015, Texas A&M (26th Oct – 28th Oct 2015)
24. P. P. Mukherjee, Z. Liu, C.-F. Chen and **A. Mistry**, *Investigating Chemical and Electrochemical Interactions during Discharge of a Lithium Sulfur Cell*, Texas A&M Non-fossil based Technologies for Energy – Research Workshop, Texas A&M (20th Oct 2015)
25. P. P. Mukherjee, A. Hernandez-Guerrero, Z. Liu, C.-F. Chen, **A. Mistry**, D. Juarez-Robles and F. Cano-Banda, *High-performance Electrode Architecture for Lithium-Air Batteries*, Texas A&M – CONACyT Symposium 2015, Texas A&M (24th Jun 2015)
26. **A. Mistry** and K. Muralidhar, *Prediction of Drop Spreading in a Lagrangian Framework*, Departmental Poster Presentation, IIT Kanpur (21st Mar 2014)

Scientific Journalism

1. **A. Mistry**, *Asphalt porous structure enables fast-charging high-capacity Li metal anode* (
2. **A. Mistry**, *X-ray nanotomography reveals 3D internal magnetization structure* (6th Oct 2017)
3. **A. Mistry**, *Electrolyte gating induced insulator-to-metal transition in WO₃ mechanism identified* (19th Sep 2017)
4. **A. Mistry**, *Intermolecular forces for self-assembly identified through simulations* (10th Jul 2017)

MRS Fall Meeting, 2017

5. **A. Mistry**, *Bio-inspired Bistable Shape-changing Displacement Sensors* (1st Dec 2017)
6. **A. Mistry**, *Data Mining in Small-scale Plasticity* (30th Nov 2017)
7. **A. Mistry**, *Bio-inspired Anti-fogging Materials: from the Mosquito Effect to the Cicada Effect* (29th Nov 2017)
8. **A. Mistry**, *Analyzing the Stability and Kinetics of the Li metal – solid electrolyte Interface* (29th Nov 2017)
9. **A. Mistry**, *Safe, High-energy-density Solid-state Li Batteries* (29th Nov 2017)
10. **A. Mistry**, *Enhancing Superhydrophobicity and Icephobicity through Surface Flexibility Inspired by Butterfly Wings* (29th Nov 2017)
11. **A. Mistry**, *Phase Field Models and Interfacial Evolution: a Critical Test of Simulation* (29th Nov 2017)
12. **A. Mistry**, *Benchmarking Problems for Phase Field Codes* (29th Nov 2017)
13. **A. Mistry**, *Controlling the Electrical Properties of Organic Electronics: a Path Towards Low-power Printed Electronics* (29th Nov 2017)
14. **A. Mistry**, *Design of Lubricant Infused Surfaces* (28th Nov 2017)
15. **A. Mistry**, *Enhancing Understanding of the Solid-electrolyte Interface: Multi-modal Characterization of Battery Systems* (28th Nov 2017)
16. **A. Mistry**, *Graphene Quantum Dots from Coal* (28th Nov 2017)

17. **A. Mistry**, *The DAGS chemistry: Droplet Assisted Growth and Shaping for Synthesis of Polymeric Nano- and Microstructures* (28th Nov 2017)
18. N. Briggs, X. Gong and **A. Mistry**, *Special Workshop on Nanomaterials and Their Applications* (27th Nov 2017)
19. **A. Mistry**, *3D Printing of Transparent and Conductive Heterogeneous Hydrogel-elastomer Systems* (27th Nov 2017)
20. **A. Mistry**, *Towards Photo-rechargeable Lithium-ion Battery* (27th Nov 2017)
21. **A. Mistry**, *Garnet-based Li-metal Batteries* (27th Nov 2017)

MRS Spring Meeting, 2017

22. **A. Mistry**, *Solar CO₂ Reduction Coupled with Water Oxidation—Semiconductor/Metal-Complex Hybrid System* (17th Apr 2017)
23. **A. Mistry**, *Photoelectrochemical Solar Energy Storage—Hydrogen Production vs Direct CO₂ Reduction and Photoredox Flow Batteries* (18th Apr 2017)
24. **A. Mistry**, *Nanogenerators for Self-powered Systems and Large-scale Blue Energy* (18th Apr 2017)
25. **A. Mistry**, *Surface-bound Enzymatic Reactions Organize Microcapsules and Protocells in Solution* (18th Apr 2017)
26. **A. Mistry**, *Data Analytics for Mining Process-Structure-Property Linkages for Hierarchical Materials* (20th Apr 2017)
27. **A. Mistry**, *A Multiscale Approach to Cathode Design Based on Mapping Intercalation Gradients within Individual Particles and across Particle Aggregates* (20th Apr 2017)
28. **A. Mistry**, *Needs and Challenges Associated with High Energy Batteries with an Emphasis on Thermodynamic Underpinnings* (21st Apr 2017)
29. **A. Mistry**, *Understanding the Nature of Chemical and Electrochemical Stability of Electrolytes at Mg Anode Surfaces* (27st Apr 2017)

Professional Societies

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| 1. American Society of Mechanical Engineering (ASME) | since Nov 2015 |
| 2. Electrochemical Society (ECS) | since Nov 2015 |
| 3. Materials Research Society (MRS) | since Mar 2017 |

TEACHING EXPERIENCE

Teaching Assistantships

1. Spring 2014: *Experimental Methods in Thermal Sciences* (ME 649) class strength – 18
2. Fall 2013: *Programming and Numerical Analysis* (ME 685) class strength – 22
3. Spring 2013: *Fluid Mechanics* (ME 231) class strength – 105

Lectures and Workshops

1. Jul 24th-25th, 2014: *How to generate Technical Diagrams/Figures using Asymptote* (IIT Kanpur)
2. Jun 30th- Jul 4th, 2014: *How to become Friends with MATLAB?* (IIT Kanpur)
3. Aug 27th-31st, 2013: *Basics of MATLAB programming* (IIT Kanpur)
4. Mar 28th, 2012: *Application of Mathematics in “Real-life Problems”* (SVNIT Surat)
5. Sep 15th, 2010: *Steering and Differential* (SVNIT Surat)

STUDENT MENTORING

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| 1. Akash Verma (B. Tech IIT Kanpur, India) | May 2016 – Jul 2016 |
| <i>A Reduced-order Model to Quantify Thermal Behavior of Li-ion Cells during Electrochemical Testing</i> | |
| 2. Team of 15 Students (Texas A&M University, TX) | Sep 2015 – Dec 2015 |
| <i>AggieChallenge 2015</i> | |
| 3. Fernando Cano-Banda (M. S. University of Guanajuato, Mexico) | Jun 2015 – Nov 2015 |
| <i>Macro-scale Mathematical Model for Discharge Performance of Lithium Air Cells</i> | |
| 4. Leigha Lewis (B. S. Sam Houston State University, TX) | May 2015 – Jul 2015 |

Data-driven Characterization of Transport Properties for Electrode Microstructure of Lithium Sulfur Batteries

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| 5. | Mohit Singhal (B. Tech IIT Kanpur, India) | May 2015 – Jul 2015 |
| | <i>Oven Test to Measure Thermal Abuse Tolerance of Li-ion Batteries: A Lumped Model</i> | |
| 6. | Aditya Tiwari (B. Tech SVNIT Surat, India) | May 2015 – Jul 2015 |
| | <i>Drying of Particulate Slurry: A Model for Preparation of Electrodes</i> | |

MISCELLANEOUS

Computer Skills

Languages known: C/C++, Fortran 77/90/95/2003, MATLAB, LabVIEW, LaTeX, Asymptote
Programming style: modular, parallel programming (OpenMP, MPI and GPU parallelization)
Software: Solidworks, Pro/Engineer, AutoCAD

Hobbies: Sketching & Painting, Programming, Electronics

Extra-curricular Activities:

1. Planning, designing and coordinating events in technical festivals
2. Managing activities of student chapters