

SHASHWATA CHAKRABORTY

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OBJECTIVE

“Winners are not people who never fail, but people who never quit”. What I’ve learnt in an assignment is more important to me than what I already knew when I started. By virtue of my tenacity and hard work, I want to build a successful career in mechanical engineering and nanotechnology.

EDUCATION

Master of Science in Nanoengineering Jan 2019 - Present
Joint School of Nanoscience& Nanoengineering,
North Carolina A&T State University. GPA : 3.90/4

Bachelor of Science in Mechanical Engineering May 2012 - Mar 2017
Bangladesh University of Engineering& Technology. GPA : 3.16/4

TECHNOLOGY SKILLS

Design Software	SolidWorks, AutoCAD.
Engineering Software	Abaqus, MATLAB, Ansys Mechanical APDL, COMSOL Multiphysics.
Programming Languages	Python, C, C++.
Office Accessories	MS Word, MS Power-point, MS Excel etc.
Hands-on Experience	Dismantling and re-assembling small and medium CI (diesel) and SI (gasoline) engines and performance testing.

WORK EXPERIENCE

Graduate Research Assistant Jan 2019- Present
JSNN, North Carolina A&T State University

- Analyzing the properties of Hybrid Composite prepared by HVARTM process.

Graduate Teaching Assistant for ME-3020 Aug 2018 - Dec 2018
University of Wyoming

- Organizing the lessons for the lab and grading

Mechanical Engineer May 2017 - Jan 2018
GPH Ispat Limited (Project of 0.8 MTPA Steel Plant)

- Organized, planned and supervised the erection of De-dusting Plant.
- Guided the erection and handling of heavy steel structures for the rolling mill.
- Supervised the welding of large ducts and pipes by providing the directions to the workers for choosing the right welding rod, current and voltage for the jobs and by checking the quality by Dye Penetrant Test.
- Supervised the paint job on ducts by measuring the thickness of the primer and secondary coatings.
- Analyzed designs of the units of Air-separation Plant and provided the feedback to the suppliers/contractors by correcting and modifying the compressor circuits (air and water) and specifications for the machinery as needed.
- Choosing the right lot of items(rod, bolt etc) by analyzing the sample properties (Tensile Test, Spectroscopy).
- Led the entire workforce in the erection and commissioning of Weigh-bridge a month ahead of the schedule.
- Executing all the plans in field by maintaining the proper coordination between the high level officials (DGM, AGM) and the field workers from the very beginning of the erection from the ground-zero.

INTERNSHIP/INDUSTRIAL TRAINING

Bangladesh Steel Re-Rolling Mills (BSRM)

Aug 9 - Aug 27, 2016

- Learned about the entire automation process under which the billets are changed to rods of different dimensions and strengths.
- Learned the features of various equipment like rolling machines, furnace, overhead crane, various pumps, spectroscopy etc.

PUBLICATIONS

1. **Shashwata Chakraborty**, Mohammad Uddin and Dr. Ajit Kelkar, “**Behavior of Glass/Carbon Nano-engineered Hybrid Composites for Aerospace Applications Under Mechanical Loading**” (Abstract Accepted), 2019 MRS Fall Meeting & Exhibit, December 1-6 2019, Boston, Massachusetts.
2. Nandita Chakraborty Jhumur, **Shashwata Chakraborty**, M A Gafur and Mohammad Abdul Motalab, “**Comparative Study of Mechanical Properties of PP, LDPE and EVA at Different Molding Temperatures**”, The 12th International Conference on Mechanical Engineering (ICME-2017), December 20-22 2017, Dhaka, Bangladesh. [<https://doi.org/10.1063/1.5044286>].
3. **Shashwata Chakraborty**, Md. Yeashir Arafat, Saif Khan Alen and M. A. R. Sarker “**Design and Modeling of a Solar Dish Stirling Engine in the Perspective of Bangladesh**,” The 11th Global Engineering, Science and Technology Conference (GESTC-2015), December 18-19 2015, Dhaka, Bangladesh. [ISBN: 978-1-922069-92-4]
4. Md. Yeashir Arafat, **Shashwata Chakraborty**, Saif Khan Alen and M. A. R. Sarker “**Design and Modeling of a Solar Powered Absorption Refrigeration System**,” The 11th Global Engineering, Science and Technology Conference (GESTC-2015), December 18-19 2015, Dhaka, Bangladesh.

COMMUNITY SERVICE

Badhon BUET Zone, *Volunteer Member*: Awarded for Donating Blood over 10 times May 2012 - Feb 2017

EXTRA-CURRICULAR ACTIVITIES

- *Murchona BUET, Co-editor.* 2013-14
Organized two inter-university cultural festival as the host.
- *Inter-House Bengali Extempore Speech Competition.* 2010
Twice awarded as the Best Speaker
- *Inter-House Hockey Competition.* 2010
Played as a striker and scored the highest goals with Hat-trick
- *Bangladesh Mathematical Olympiad, Chittagong Region.* 2010
2nd Runner Up

REFERENCE

Dr. Ajit Kelkar
Professor and Nanoengineering Department Chair
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Greensboro, NC
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Relation: Supervisor & Course Teacher

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