

Curriculum Vitae

1. Name: SANJIDA MOURY

Department/School/Program: Electrical Engineering

Present Rank/Title: Assistant Professor **Date Tenured (if appropriate):** N/A

Date of Appointment: August 2020

Date: June 2022

2. Academic and Professional Qualifications:

Degree	University	Year	Thesis Title (if applicable)		
Ph.D.	York University, Canada	2020	Soft-Switched Multi-Input Converter for		
	Renewab		Renewable Energy Systems		
M.Eng.	Memorial University of	2009	Design of Axial Flux Permanent Magnet		
(Thesis)	Newfoundland, Canada Generators for Under Water Appl		Generators for Under Water Application		
B. Sc.	Khulna University of 2004 An Evolutionary Approach to Optimize the		An Evolutionary Approach to Optimize the		
	Engineering and		Parameters of an On-chip Voltage Reference		
	Technology, Bangladesh		Circuit		

3. Chronological Account of Career (beginning with most recent):

Appointment	Position/ Job Title	Employer	
Dates			
2020 – Present	Assistant Professor	Lakehead University, Canada	
2017	Board Designer	Advanced Micro Device (AMD), Canada	
2014 – 2020 Research and Teaching		York University, Canada	
	Assistant		
2011 – 2013	Lecturer	North South University, Bangladesh	
2008 - 2010	Research and Teaching	Memorial University of Newfoundland, Canada	
	Assistant		
2005 - 2007	Lecturer	Stamford University, Bangladesh	
2004 - 2005	Lecturer	Green University, Bangladesh	

4. Honours and Awards:

Year	Award	
2021	ECCE 2021 WiE Attendance Grant (ECCE-Energy Conversion Congress and	
	Exposition and WiE- IEEE Women in Engineering)	
2019	Women in Renewable Energy (WiRE) APPrO (Association of Power Producer	
	of Ontario)	
2019	EECS Teaching Excellence Award for Graduate Teaching Assistants, York	
	University	
2016 - 2017	Ontario Graduate Scholarship (OGS)	
2017 - 2018	Ontario Graduate Scholarship (OGS)	
2017	1 st place, EECS Three Minutes Thesis (3MT) Competition, 2017, York	
	University	
2016	Outstanding presenter award- APEC'16 (Applied Power Electronics Conference	
	and Exposition)	
2015	Lambert Family Award, York University	

5. Publications:

a) Life-time summary:

Papers in Refereed Journals: 2

Papers in Refereed Conference Proceedings: 17

b) Publication details:

Papers in Refereed Journals:

- **S. Moury** and J. Lam, 'A Soft-switched, Multiport Photovoltaic Power Optimizer with Integrated Storage Interface and Output Voltage Regulation,' in IEEE Transactions on Industrial Electronics, vol. 68, no. 5, pp. 3917-3927, May 2021
- **S. Moury** and J. Lam, 'A Soft-Switched Power Module with Integrated Battery Interface for Photovoltaic-Battery Power Architecture,' in IEEE Journal of Emerging and Selected Topics in Power Electronics, vol. 8, no. 3, pp. 3090-3110, Sept. 2020

6. Conference Papers:

Papers in Refereed Conference Proceedings:

- **S. Moury** and J. Lam, 'An Integrated PV-Battery Soft-switched Power Converter with MPPT and Voltage Regulation,' 2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 3433-3440.
- **S. Moury** and J. Lam, 'A Novel Soft-Switched Power Converter Architecture with an Integrated Energy Storage Interface Compatible with DC and AC Energy Sources,' 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 6660-6667.
- D. Aggarwal, **S. Moury** and J. Lam, 'A New Quasi-Resonant Soft-Switched Bidirectional DC/DC Converter for Energy Storage Application,' 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 6654-6659.

- K. Kanathipan, S. Moury and J. Lam, 'A fast and accurate maximum power point tracker for a multi-input converter with wide range of soft-switching operation for solar energy systems,' 2017 IEEE Applied Power Electronics Conference and Exposition (APEC), Tampa, FL, 2017, pp. 2076-2083.
- **S. Moury** and J. Lam, 'New soft-switched high frequency multi-input step-up/down converters for high voltage DC-distributed hybrid renewable systems,' 2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, 2017, pp. 5537-5544.
- **S. Moury**, J. Lam, V. Srivastava and R. Church, 'A novel multi-input converter using soft-switched single-switch input modules with integrated power factor correction capability for hybrid renewable energy systems,' 2016 IEEE Applied Power Electronics Conference and Exposition (APEC), Long Beach, CA, 2016, pp. 786-793.
- **S. Moury**, J. Lam, V. Srivastava and R. Church, 'New soft-switched multi-input converters with integrated active power factor correction for hybrid renewable energy applications,' 2016 IEEE Energy Conversion Congress and Exposition (ECCE), Milwaukee, WI, 2016, pp. 1-8.
- **S. Moury** and J. Lam, 'Modular isolated high frequency medium voltage (MV) step-up resonant DC/DC converters with high-gain rectifier for wind energy systems,' 2015 IEEE Energy Conversion Congress and Exposition (ECCE), Montreal, QC, 2015, pp. 4789-4796.
- S. B. Alam and **S. Moury**, 'Multiple-band antenna coupled rectifier circuit for ambient RF energy harvesting for WSN,' 2014 International Conference on Informatics, Electronics & Vision (ICIEV), Dhaka, 2014, pp. 1-4.
- S. B. Alam and **S. Moury**, 'Conversion of an ultra-wide-band (UWB) antenna to dual-band antenna for wireless body area network (WBAN) applications,' 2014 International Conference on Informatics, Electronics & Vision (ICIEV), Dhaka, 2014, pp. 1-4.
- S. B. Alam, M. S. Ullah and **S. Moury**, 'Design of a low power 2.45 GHz RF energy harvesting circuit for rectenna,' 2013 International Conference on Informatics, Electronics and Vision (ICIEV), Dhaka, 2013, pp. 1-4.
- S. B. Alam, M. S. Ullah and S. Moury, 'Design of a narrowband 2.45 GHz unidirectional microstrip antenna with a reversed 'Arrow' shaped slot for fixed RFID tag and reader,' 2013 2nd International Conference on Advances in Electrical Engineering (ICAEE), Dhaka, 2013, pp. 301-304.
- **S. Moury**, M. Nazim Khandoker and S. M. Haider, 'Feasibility study of solar PV arrays in grid connected cellular BTS sites,' 2012 International Conference on Advances in Power Conversion and Energy Technologies (APCET), Mylavaram, Andhra Pradesh, 2012, pp. 1-5.
- **S. Moury**, N. K. Nisha and M. Hoque, 'Design approach to generation of electricity from vibrations,' 2012 7th International Conference on Electrical and Computer Engineering, Dhaka, 2012, pp. 622-625
- **S. Moury** and M. T. Iqbal, 'A permanent magnet generator with PCB stator for low speed marine current applications,' 2009 1st International Conference on the Developments in Renewable Energy Technology (ICDRET), Dhaka, 2009, pp. 1-4.
- **S. Moury** and R. Ahshan, 'A feasibility study of an on-grid solar home system in Bangladesh,' 1st International Conference on the Developments in Renewable Energy Technology (ICDRET), Dhaka, 2009, pp. 1-4.
- **S. Moury** and M. Tariq Iqbal, 'A new approach to minimize the cogging torque of axial flux PMG for under water applications,' 2009 Canadian Conference on Electrical and Computer Engineering, St. John's, NL, 2009, pp. 1167-1171.

Keynote speaker:

S. Moury, 'The Next-Generation Power Electronics Interface for Green Applications,' 2022 IEEE LASCAS- Circuits and Systems Society in Latin America (WiCAS event), Chile, March 2, 2022.

7. Professional Associations:

Year	Association
2014 – Present	Senior Member, IEEE (Institute of Electrical and Electronics Engineers)
2015 – Present	IEEE Industry Application Society (IAS)
2015 – Present	IEEE Women in Engineering (WiE)
2015 – Present	IEEE Young Professionals
2015 – Present	IEEE Power Electronics Society (PELS)
2016	IEEE Power and Energy Society (PES)

8. Professional Committees/Service to the Profession:

Year	Association
2022 – Present	ECCE-2023 Conference (Late Breaking Research)
2022 – Present	ECCE-2022 Conference (Women in Engineering)
2020 – Present	IEEE PELS TC7 Committee (Critical Power and Energy Storage)
2020 – Present	IEEE PELS TC5 Committee (Sustainable Energy Systems)
2018 – Present	Women in Renewable Energy (WiRE), Canada
2021	ECCE-2021 Conference (Women in Engineering)

9. Courses Taught and Participation in Curriculum Development:

a. Undergraduate Courses:

Year	Number	Course Name	Number of Students
2020	EELE	Computer Logic Circuits	38
2021	1637		20
2020	EELE	Circuit Analysis & Design	12
2021	3310	, c	14
2020	EELE	Communication Systems	12
2021	4053	·	67
2021	EELE	Engineering Probability and Statistics	15
2022	2137		18
2021	EELE	Application of Power Electronics	5
	0531		
2021	ESOF	Numerical Analysis and Modeling	10
2022	3558		13