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Research Areas

- Power Systems and Renewable Energy
- Semiconductor Device and Technology

Research Interests

- CMOS Technology
- IC Fabrication
- CMOS Image Sensor
- Renewable Energy

Teaching

- EEE 141 Electrical Circuits I
- EEE 141L Electrical Circuits I Lab
- EEE 111/ ETE 111 Analog Electronics-I
- EEE 111L/ ETE 111L Analog Electronics-I Lab

▪ EEE311/ ETE311 Analog Electronics II

▪ EEE 361/ ETE 361 Electromagnetic Fields & Waves

Selected Publications

Journals

▪ Marufa Ferdausi, K. M. A. Salam, “Integrated DC Energy Management System,” ”, International Journal of Global Science and Technology, Australia, Vol.3. No.1, (2015), pp. 52-63., 2015

▪ Nikita Mahjabeen, K. M. A. Salam, “Comparative Study and Design Optimization of Supercapacitors for High Powered LED Flashlight Camera Phones,” International Journal of Scientific & Engineering Research (IJSER), Vol.6. No.7, (2015), pp. 471-477., 2015

▪ Ahmed Sony Kamal, K. M. A. Salam, and M. A. Razzak, “Design of a Transformer-less Grid-Tie Inverter Buck-Boost Photovoltaic Inverter with Immittance Conversion Topology,” International Journal of Renewable Energy Research, Vol.4. No.3, (2014), pp. 539-547 (Indexed in SCOPUS)., 2014

▪ M. A. Muzahid, M. F. R. Ansari, K. M. A. Salam and H. U. Zaman, “A High Voltage Gain DC DC Boost Converter for PV Cells,” Global Science and Technology Journal, vol. 3, no. 1, pp. 64 – 76, 2015

Research Projects & Grants

▪ Design and Development of a Constant Current Grid-Tie Inverter using Immittance Conversion Topology for Photovoltaic Applications (NSU Research Fund)