Nazmus Saadat As-Saquib

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OBJECTIVE

A fresh B.Sc engineering graduate currently looking for a full-time teaching position. I would like to utilize my skills and experience as well as my passion for teaching to train and educate young minds. Moreover, I would like to work with other professionals to improve my skills as an educator which will allow me to further contribute in the field of education.

EDUCATION

Bangladesh University of Engineering and Technology (BUET) , Dhaka
Master of Science in Electrical and Electronic Engineering (EEE)
Currently studying

Bangladesh University of Engineering and Technology (BUET) , Dhaka
Bachelor of Science in Electrical and Electronic Engineering (EEE)
April, 2019 CGPA: 3.78/4.00

Chittagong Govt. College, Chittagong Education Board
Higher Secondary Certificate (HSC)
August 2014 GPA: 5.00/5.00

Chittagong Collegiate School, Chittagong Education Board
Higher Secondary Certificate (SSC)
August 2012 GPA: 5.00/5.00

RESEARCH EXPERIENCE

Tuning of Thermal Conductivity of Monolayer Gallium Nitride Nano-ribbon: An Equilibrium Molecular Dynamics Study

Equilibrium Molecular Dynamics simulations using Stillinger-Weber potential has been deployed to compute the thermal conductivity of the nanometer-sized zigzag monolayer GaN nano-ribbon(NR). Thermal transport dependence of monolayer GaN-NR on the variation of length and width are explored. Furthermore, the impact of aluminium and indium doping on the thermal conductivity of monolayer GaN-NR are also investigated.

PROJECTS

- Recognition System for Hand Gesture Communication using kNN
- EEG Brain Signal Controlled Wheel Chair
- Face Recognition System using Principal Component Analysis and Eigen Face Method
- 32-bit Microprocessor without Interlocked Pipelined Stages (MIPS)
- Weather Monitoring and Automated Temperature-Humidity Controlling System
- Isolated Bangla Digit Recognition using Mel Frequency Cepstral Coefficients (MFCC) and Artificial Neural Network(ANN)
- Design of Ku-Band S-Shaped Micro strip Patch Antenna
- Design and Implementation of a 4-bit SAP (Simple As Possible) Computer
- Design of A Solar PV (Photovoltaic) System for a Home
- Electrical Services Design for a One-Storied Building
- Pulse Rate Measurement Device
- Automated Water Level Controller in Water Reservoirs
- Boost Converter: A pSpice Simulation

TECHNICAL SKILLS

Software Languages: Python, C++, C, MATLAB, Arduino, Intel-8086 Assembly Language, Verilog

Simulation Software: MATLAB, Simulink, LAMMPS, OVITO, VNL, CADENCE, PSPICE, PSAF, QUARTUS II, Proteus, Ansoft HFSS, AutoCAD, MASM, Emu8086

General: Machine Learning, Deep Learning, Signal Processing

AWARDS

- **Dean's List Award**, awarded for academic excellence at undergraduate
- **University Merit Scholarship** , awarded for academic excellence at undergraduate
- **Board Scholarship (General)**, Higher Secondary Certificate Examination
- **Second Runner-Up (2010)** , Bangladesh Mathematical Olympiad

RELEVANT COURSES

- Computer Programming in C and C++
- DC and AC Circuit Analysis
- Analog Electronic Circuit
- Digital Electronics
- Solid State Devices
- Analog Integrated Circuit
- Semiconductor Device Theory
- VLSI
- Analog Signal and Linear Systems
- Digital Signal Processing
- Electromagnetics
- Microwave Engineering
- Communication System
- Mobile Cellular Communication
- Control System

ADDITIONAL ACTIVITIES

- Academic Team Member, **Bangladesh Mathematical Olympiad**
- Volunteering experience, **Bangladesh Physics Olympiad**
- Writer and contributor of several published textbooks and supplementary books related to Secondary and Higher Secondary level physics, chemistry and mathematics, **Joykoly Publicaations Ltd and Panjeree Publications Ltd.**

REFREES

Dr. Samia Subrina
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