ABHIJEET ANAND

Roll No.:214102101
M.Tech - Power Engineering
Electronics and Electrical Engg. IIT Guwahati

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Guwahati	7.41 (Current)	2021-Present
B.E	The University of Burdwan, Burdwan	70.30%	2014-2018
Senior Secondary	Bihar School Examination Board	66.80%	2013
Secondary	Bihar School Examination Board	75.40%	2011

Experience

- **Teaching Assistant**
  EEE, IIT Guwahati Mar. 2022 - Current
  – Basic Electronics Laboratory(EE102)
  – Detection and Estimation Theory(EE692)

Projects

- **Energy Management of PEMFC-Battery-Supercapacitor Hybrid Energy System** *Ongoing*
  M.Tech | Dr. Sanjib Ganguly,Associate Professor,EEE,IIT Guwahati
  – Modeling of the Proton Exchange Membrane Fuel Cell along with the super capacitor and battery management for the hybrid energy systems.

- **Simulation of Bi-directional Grid to Vehicle Converter including Battery** *Jan. 2022 - Apr. 2022*
  Course Project | Dr. Chandan Kumar,Associate Professor,EEE,IIT Guwahati. Report
  – Modeling and Simulation of three-phase two level controlled bidirectional ac-dc converter with bidirectional Dual Active Bridge Converter as a constant current and constant voltage Battery Charger.

- **PCB Design of Closed Loop Operation of DC-DC Buck Converter** *Oct. 2021 - Nov. 2021*
  Course Project | Dr. Chandan Kumar,Associate Professor,EEE,IIT Guwahati Report
  – Modeling and Simulation of close loop Controlled dc-dc Buck Converter using LTspice and carried out its schematic and PCB design using EAGLE software.

- **Different Settings of UPFC and its effect on Distance Protection** *Jul. 2017 - Jun. 2018*
  B.E | Mr. Rajib Sadhu,Assisant Professor,EE,BU Burdwan Report
  – Simulation and Analysis of the effects of incorporation of shunt and series connected FACTS devices on distance protection scheme of Transmission Line.

Technical Skills

- **Programming**: C++, MATLAB, Python*,Verilog*
- **Softwares**: Simulink,Scilab, LTspice, EAGLE PCB*, Xilinx ISE*
- **Tools**: LaTeX, MS-Excel, MS-Visio ** Elementary proficiency*

Key courses taken

- **Mathematics**: Linear Algebra, Basic Calculus, Probability & Statistics
- **Electrical Engineering(B.E)**: Analog and Digital Circuits, Electrical Machines
- **M.Tech**: Power Electronic Converters, Electrical Power Quality and Reliability, Power Electronics Applications in Power Systems, Power Electronic Systems For Electric Vehicles
- **NPTEL**: Power System Analysis, Control Engineering

Extracurricular

- **IoT Workshop**,Attended a two day workshop on Hand Gesture Controlled Devices.,BU,Burdwan *Mar. 2016*

Achievements

- **GATE**,Secured 98.80 percentile in GATE 2021 attended by 87,559 candidates. *2021*
- **UTKRISHT-2015**,Won First Prize in BridzX.,BU,Burdwan *2015*