

# Amruta Abhishek

Specialized in Electrical Engineering

## CAREER OBJECTIVE

To obtain a recognized position in an organization, where I can constantly contribute my knowledge, skill and intelligence to its growth and simultaneously keep adding values to myself.

## ACADEMIC DETAILS

Qualification	Institution	University/Board	Year of Passing	CGPA/ % of Marks
Ph.D	KIIT-DU	Kalinga Institute Of Industrial Technology, Odisha	2024	8
M. TECH	Indira Gandhi Institute of Technology, Sarang	Biju Patnaik University Of Technology, Odisha	2019	7.52
B.TECH	Krupajal Engineering College, Bhubaneswar	Biju patnaik University of Technology, Odisha	2016	7.44
H.S	Rajdhani Junior college, Bhubaneswar	Council of Higher Secondary Education, Odisha	2012	60.33%
SECONDARY	ST. Xavier's High School, Bhubaneswar	Central Board of Secondary Education, New Delhi	2010	8.00

## VOCATIONAL TRAINING:

- Industrial Training: I have undergone vocational training in NALCO, Angul, Odisha.
- NaMPET-III: Participated 7 days workshop on power electronics education, NIT\_Rourkela.
- NWSGT-III: Workshop on "Recent Developments in smart Grid Technology", IIT\_Bhubaneswar.
- Ph.D summer school organized by IEEE power electronics society, IIT Bhubaneswar.
- Certified course in AutoCAD.
- Certified course in PLC

## Professional Experience:

- Developed, designed, and tested new DC-DC converters through simulation and hardware.
- Conducted open loop and closed loop analysis to ensure system stability and performance.
- Created PCB designs using Altium and Autodesk Eagle for various power electronic applications.
- Programmed microcontrollers using Arduino UNO and d-Space 1104 for control and automation purposes.
- Designed PI controllers in MATLAB for precise control of power electronic systems.
- Performed extensive simulation modeling in MATLAB software to validate converter designs.

## Professional Memberships:

- Member of IEEE Power Electronics Society

## PUBLICATION:

### Conference and Journal Paper:(Published)

- A. Abhishek, R. Patel, T. Roy, C.K .Panigrahi, "L-Impedance Network based DC-DC Converter with CLD Cell Integration", IEEE ICEPE, 2022.
- A. Abhishek, R. Patel, T. Roy, C.K .Panigrahi, "L-Impedance Multi-stage DC-DC Boost Converter with CLD Cell For High Voltage Gain and Reduced Switch Voltage Stress", IEEE INDICON, 2022.
- A. Abhishek, R. Patel, T. Roy, C.K .Panigrahi, "Multidevice L-impedance boost converter CLD cell DC-DC boost converter", IEEE ICPEE, 2023.
- Snehalika, R. Patel, A. Abhishek, C.K Panigrahi, "A new GAN Based Converter Design for electric vehicle charging System," IJPEDES, 2024

**DECLARATION:** - I HEREBY DECLARE THAT THE ABOVE INFORMATION IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Place- Bhubaneswar

Signature

Amruta Abhishek



## PERSONAL INFORMATION:

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## TECHNICAL SKILL:

- DC-DC Converters:** Expertise in design, simulation, and testing.
- PCB Design:** Proficient in Altium and Autodesk Eagle.
- Programming:** Skilled in Arduino UNO for embedded systems.
- Control Systems:** Experienced in PI controller design using MATLAB.
- Simulation:** Advanced knowledge of MATLAB for modeling and simulation.

## LANGUAGE KNOWN:

English

Hindi

Odia