

A. MANOJ KUMAR

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 KR Puram, Bangalore

 10-08-2004

Profile

Electrical and Electronics Engineering (EEE) graduate from YSR Engineering College, YVU, with a strong academic record (70% CGPA). Experienced in circuit design, power systems, and embedded technologies, with hands-on expertise in academic projects. Specialized in DC-DC Buck Boost Converter and VSI-based BLDC motor drives, focusing on efficient energy integration. Passionate about innovative engineering solutions and problem-solving in electrical applications. Quick learner with strong analytical skills, eager to contribute technical knowledge in a dynamic work environment. Seeking an opportunity to apply expertise in power electronics and renewable energy integration.

Education

01/2021 – 06/2025	EEE
proddattor, Kadapa	<i>YSR Engineering College</i>
	CGPA: 7.0
06/2019 – 04/2021	MPC
Vijayawada	<i>Sri Chaitanya Junior college</i>
	CGPA: 5.5
06/2018 – 04/2019	SSC
Yadamari, Chittoor	<i>Sri Shiridi Sai School</i>
	CGPA: 8.8

Projects

02/2025 – 05/2025	Integration of Solar PV-Directional Converter With DC-DC Buck Boost Converter Based VSI for BLDC Motor Drives <i>DC-DC Buck Boost Converter Based VSI BLDC Motor Drives</i>
	This project focuses on speed control of an electric motor using a Voltage Source Inverter (VSI). When high voltage fluctuations occur, the VSI acts as a stable power source, ensuring controlled motor operation. A PWM-based controller is integrated to regulate the voltage and frequency, optimizing motor speed and efficiency. The system enhances motor performance while preventing overheating and excessive wear. This solution is ideal for industrial applications requiring precise speed control under varying voltage conditions.

Skills

MS Office	Typing
Communication	Python
Excel	

Languages

- English
- Telugu
- Tamil

Interests

- Football
- cricket
- photo editing