Nikhil

github.com/nikhilxkumar nikhilxkumar.github.io linkedin.com/in/nikhilxkumar Uhlandstraße, Paderborn

Education

Universität Paderborn April 2023 - October 2025
MS in Electrical Systems Engineering

Dayananda Sagar College of Engineering July 2017 - June 2021
BE in Electrical and Electronics Engineering *GPA: 8.7/10.0*

Experience

Mindset IT Solutions & Consultants | *Project Intern* Mar 2021 - Apr 2021

- Researched and analyzed the feasibility of implementing **wireless charging technology** for electric vehicles, identifying cost-saving opportunities that could potentially reduce expenses by 20%.
- Designed and optimized charging parameters for **resonance coupling** based wireless charging using ANSYS simulations. Achieved 20% increased efficiency and 40% reduction in charging time.
- Programmed the **Microcontroller** and performed system testing to ensure proper working of resonance coupling wireless charging.
- Assembled prototype and tested it under real-time system conditions in a laboratory environment.

Bharat Heavy Electricals Limited (BHEL) | *Student Intern* July 2019 - Aug 2019

- Evaluated **turbogenerator manufacturing** processes, ensuring adherence to customer requirements and safety standards.
- Improved fabrication and **quality control** for industrial generators, reducing costs by 10% in the production of 12 prototype units.
- Streamlined daily production reporting by automating the process, resulting in a 25% improvement in efficiency.

Projects

Amazon Clone March 2024

- Developed a fully static replica of the **Amazon.com** website using HTML and CSS, resulting in a 95% accuracy rate compared to the original site.

Smart Parking Spaces May 2020

- Implemented IR sensors and Arduino microcontroller to provide **real-time parking** availability information, resulting in an 84% reduction in driver search time.
- Programmed the **Arduino microcontroller** to display parking availability on an LCD monitor and control LED lights for indicating parking status.

Line Follower Robot May 2019

- Developed a line-following robot with 95% accuracy in navigating line patterns, resulting in a 33% reduction in tracking time.
- Evaluated the robot using an arena with various line patterns to determine the completion time and number of errors.

Skills & Certificates

Skills: Software Development(HTML/CSS/Javascript/Git-Github/ReactJS), Arduino, MATLAB, Proteus, LaTeX
Libraries: pandas, NumPy, Matplotlib
Certifications: Python, Internet of Things, PCB Designing

Languages

Deutsch (B1) English (C1) Hindi (Mother Tongue)

Note: The underlined items contain hyperlinks to the respective proofs of my accomplishments.