

SATHVIK K B

Electrical and Electronics Engineering

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Bangalore

/in/sathvikkb

SUMMARY

- Apply design passion in a fast-paced, innovative setting, creating lasting solutions. Collaborate with talented teams, utilize cutting-edge tools, tackle challenging projects, and contribute to company success while advancing personal design career with lifelong learning.

SKILLS

Cad Tool: Fusion 360, Autocad Electrical

Design: Canva, Figma

Misc: Matlab, Word, Excel

Simulation Tool: LtSpice, Psim, EasyEda

PROJECTS

Project 1	Advanced Transmission Faults System Project enhances transmission line safety by detecting fires and wire faults using NTC thermistor sensors. Relay cuts power from substation in fire detection and disconnects wires to prevent hazards.	04/2021- 05/2021
Project 2	Marx Generator Marx generator charges capacitors in parallel, then discharges them in series via spark gaps. Capacitors store energy during charging, discharged rapidly when spark gaps break down.	05/2022-08/2022
Project 3	Wireless EV Charging System Developed a wireless EV charging station with advanced technology for efficient, cable-free charging, enhancing user experience and promoting the adoption of electric vehicles.	10/2022-11/2022
Fusion 360 Design	Advance Smart Glass cleaning robot Project automates cleaning of tall building windows with wireless tech, integrating five methods via Autodesk Fusion 360. Ensures safety, efficiency, and mitigates risks of manual cleaning on high-rises.	01/2023-03/2023
Fusion 360 Design	BLDC Motor Design BLDC motor meticulously designed with Fusion 360, optimizing performance, size, and durability. Precise modelling ensures enhanced efficiency and torque. Emphasizes innovation and reliability for modern automation and robotics.	01/2023-03/2023
Survey Paper	Design and Development of Single-Phase Preventer for Three Phase Induction Motor Study proposes single-phase failure protection for three-phase induction motors, prioritizing safety. Novel prototype eliminates DC supply requirement, achieving faster response (<30 cycles) than relay based circuits (>50 cycles).	05/2023-09/2023

EDUCATION

CGPA - 7.1	REVA University Electrical and Electronics Engineering	10/2021 - Present
75 Percentage	Sri Adhichunchangiri PU College PCMB -	05/2019 - 02/2021
81 Percentage	ST. Paul's English High School Karnataka Board	06/2018 - 04/2019

INTERNSHIP

EM Department	Bharat Electronics Limited (BEL) • EVMs, target systems, medical devices, and stators all depend on rigorous quality assurance processes. These ensure precision, reliability, regulatory compliance, and optimal performance in diverse, critical applications. Through meticulous design verification and adherence to standards, these products achieve excellence and enhance user satisfaction.	06/2023 - 07/2023
UIIC Department	M D Aerospace • During the internship, I received comprehensive training in Arduino and IoT technologies. The program covered fundamental concepts, hands-on exercises, and real-world applications.	04/2023 - 09/2023
Tessolve	Embedded and IOT Programming • I helped design and develop a multifunctional robot. This involved mechanical design, electronics integration, and programming. I worked on hardware setup, control algorithms, and performance testing. The project enhanced my skills in robotics, teamwork, and problem-solving, offering valuable interdisciplinary experience.	05/2023 - 06/2023

CERTIFICATION

Coursera	Intro to Digital Manufacturing With Autodesk Fusion 360	01/2023 – 02/2023
Coursera	3D Model Creation with Autodesk Fusion 360	02/2023 – 03/2023
Coursera	Autodesk Fusion 360 Integrated CAD/CAM/CAE	05/2023 – 06/2023
Coursera	Engineering Design Process with Autodesk Fusion 360	07/2023 – 09/2023

ACHIEVEMENTS

NCC	NCC 'B' Certificate	Alpha Grade
NCC	Ek Bharat Shrestha Bharat Camp	Gold Medal
NCC	Annual Training Camp	Gold Medal
NCC	Guard of Honour	for Russian Delegates
BizBee	Project Presenatation	2nd Place
Hackthon	Participated in Circuit Avishkar	IEEE Hackthon
Hackthon	Participated in Smart India Hackthon	SIH Hackthon
Conference	Attended the TEECON Conference	Paper Presentation

LANGUAGES

English
, Kannada - native
, Hindi

HOBBIES

Trekking
, Obstacle Training
, Online Game