

# LOKESH MANICKAM S K

ELECTRICAL AND ELECTRONICS ENGINEERING

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**Linkedin:** [linkedin.com/in/lokesh-manickam-s-k](https://www.linkedin.com/in/lokesh-manickam-s-k)

**Portfolio:** [Lokeshmanickam.netlify.app](https://Lokeshmanickam.netlify.app)

## CAREER OBJECTIVE

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Ambitious Electrical and Electronics Engineering student with a strong foundation in power systems, embedded systems, and web technologies. Passionate about applying technical knowledge, problem-solving skills, and leadership abilities to contribute effectively to engineering projects and organizational growth.

## PROJECTS

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### Personal Portfolio Website with Serverless Contact Form

Developed a static portfolio website using HTML, CSS, and Bootstrap with an integrated contact form. Implemented EmailJS for real-time email notifications and Google Apps Script as a backend API to store form submissions in Google Sheets using POST requests and FormData to handle CORS limitations. Deployed the application on Netlify with a serverless architecture.

### EV Charging Station Booking System

Designed web interfaces and developed a website for the EV Charging Station Booking System. To develop a front-end is Elementor, and the backend is WordPress & PHP.

Tools: Figma, WordPress, Elementor, and PHP.

### IoT and AI-Based Predictive Maintenance System for Agricultural Irrigation Pumps

This project uses IoT sensors and AI algorithms to monitor irrigation pump conditions in real time, enabling predictive maintenance. It reduces downtime, improves efficiency, and supports smart, data-driven agricultural water management

### AI-Enabled IOT Smart Relay System for Efficient Home and Industrial Automation

An AI-enabled IoT smart relay system automates control of home and industrial devices, improving energy efficiency, remote monitoring, and intelligent decision-making for enhanced convenience, safety, and operational efficiency.

## INTERSHIPS

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### NEYVELI LIGNITE CORPORATION INDIA LIMITED

I completed Implant training at Neyveli Lignite Corporation India Limited. I mainly worked at Thermal Power Plant-2. I learned many knowledge about Thermal Power Station by attending this internship at Neyveli Lignite Corporation India Limited.

### VOLTECH MANUFACTURING PRIVATE LIMITED

I gained practical exposure to transformer manufacturing and testing. I observed core-coil assembly, winding, tanking, and oil filtration processes, and learnt about routine tests as per IS and IEC standards. This internship improved my technical knowledge, safety awareness, and teamwork skills, preparing me well for my future in electrical engineering.

### UI/UX Design Internship — NoviTech R&D

In November-December 2025, I accomplished a one-month professional internship in UI/UX Design at NoviTech R&D Pvt. Ltd. The internship allowed me to have direct experience with user-centered design, prototyping, and usability. I was involved in learning about user needs, wireframing and visual design, and enhancing the overall user experience for digital applications in an industry setup.

### Full Stack Development Internship — NoviTech R&D

From November to December 2025, I completed a one-month Full Stack Development internship at NoviTech R&D Pvt. Ltd. I was able to learn firsthand about both front-end and back-end development, learning about how web applications are created and how the client and server communicate with each other, as well as the role of databases. All of this was done in a real-world development setting.

## Education

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### ST.JOSEPH'S INSTITUTE OF TECHNOLOGY, CHENNAI

B.E.Electrical and Electronics Engineering, **CGPA: 7.74**

### JAWAHAR HIGHER SECONDARY SCHOOL, NEYVELI

12th percentage: **61%**

### SRK INTERNATIONAL SENIOR SECONDARY SCHOOL, NEYVELI

10th percentage: **72%**

## CERTIFICATIONS

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- Data Analytics Job Simulation — Deloitte (Forage) (Dec 2025)
- Web Development Fundamentals — IBM SkillsBuild (Jan 2026)
- Getting Started with Data — IBM SkillsBuild (Jan 2026)
- Programming Foundations with JavaScript, HTML, and CSS — Duke University (Coursera) (Jan 2026)
- Battery Technology for Electric Vehicles — Arizona State University (Coursera) (Oct 2023)
- Introduction to Programming with MATLAB — Vanderbilt University (Coursera)
- Introduction to Internet of Things — NPTEL (Elite), IIT Kharagpur (Jan–Apr 2025)
- Technical Communication for Engineers — NPTEL (Elite), IIT Roorkee (Jul–Aug 2025)
- Introduction to Electric Vehicles
- Power Systems Fundamentals

## TECHNICAL SKILLS

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- **Programming Languages:** C, Java
- **Web Technologies:** HTML, CSS, JavaScript
- **Tools & Platforms:** MATLAB, Tableau, Visual Studio Code (VS Code)
- **Design & CMS Tools:** Figma, WordPress, Elementor
- **Domains:** IoT, EV Systems, Power Systems

## SOFT SKILLS

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- Critical Thinking
- Collaboration
- Teamwork
- Leadership

## LANGUAGES

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- English
- Tamil