

## **Adil Yousuf**

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## **Professional Summary**

Dynamic electrical engineering professional with experience in academia and industry. Specialized in power systems, electrical machines, and system optimization. Experienced in delivering undergraduate education, guiding research, and developing innovative engineering solutions, including two granted patents. Strong commitment to interdisciplinary collaboration and advancing technologies that contribute to societal and environmental well-being.

## **Education**

### **Master of Technology (M.Tech), Electrical Power and Energy Systems**

National Institute of Technology (NIT), Srinagar, India

2017 – 2019

### **Bachelor of Engineering (B.E.), Electrical Engineering**

University of Jammu, Jammu, India

2007 – 2011

## **Professional Experience**

### **Assistant Professor (on Contract) – Electrical Engineering**

Institute of Technology, University of Kashmir, India

March 2020 – till now

### **Electrical Engineer**

February 2016 – June 2017

### **Lecturer (on Contract) – Computer Science and Engineering**

University of Kashmir, North Campus, India

May 2015 – January 2016

### **Lecturer – Electrical Engineering**

Government Polytechnic College, Baramulla, India

September 2012 – March 2015

## **Research and Innovation**

### **Granted Patents**

#### **1. Solar-Electrified Road for Wireless Charging of Electric Vehicle**

- Patent No.: 527638 | Filed: August 12, 2023 | Granted: March 15, 2024
- Role: Co-Inventor
- Summary: Developed a smart transportation infrastructure using solar energy and dynamic wireless charging technology to support sustainable electric vehicle mobility.

## **2. Incubator System for Premature Infants**

- Patent No.: 548141 | Filed: April 26, 2023 | Granted: August 20, 2024
- Role: Co-Inventor
- Summary: Designed an intelligent neonatal incubator featuring advanced monitoring, temperature control, and caregiver interaction features to improve infant health outcomes.

## **Research Interests**

- Power System Operation and Control
- Energy Optimization
- Electrical Machine Design and Applications
- Interdisciplinary Engineering Systems

## **Professional Development**

- FDP: Soft Computing Techniques – NIT Srinagar (July 2020)
- STC: Condition Monitoring of Electrical Apparatus – NIT Srinagar (Sept 2020)
- Workshop: Fuzzy Logic Systems in Engineering Applications – NIT Sikkim (March 2021)
- Workshop: Power Electronics Applications in Renewable Energy – NIT Srinagar (April 2019)
- VLSI Design using VHDL – NIT Srinagar (July 2012)
- Business Skills Development – MSME, Govt. of India (Dec 2010)
- First Aid Certification – Indian Red Cross Society

## **Professional Memberships**

- Member, International Association of Engineers (IAENG), Hong Kong