




# Pushpal Das

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## EXPERIENCE

- **IIRS-ISRO, Dehradun**  
Intern—IoT solutions Architect.  
*July 2021 onwards*
- **CoreEL Technologies, Bangalore**  
Trainee—Functional Verification with System Verilog.  
*June 2022 onwards*
- **Vyorius, Delhi**  
Trainee—VLSI design and lot.  
*Nov 2021 - March 2022*

## PROJECTS

- **Learning Aid for Children with Motor Neuron Defect, made for IUCEE POBL 2021**  
IoT wireless device to help a child write.  
*[Arduino UNO, Stepper Motor, CNC, Bluetooth]*
- **Data application, IIRS-ISRO**  
Data application for accurate estimation of mineral present in soil.  
*[IoT architecture]*
- **Triple Carry Avoidance**  
Triple riding avoidance inside SRM Institute of Science and Technology  
*[Image Sensor, SoC, Database]*
- **ENVI-City, ICTSGS**  
Smart floodwater management system to sustain agriculture in rural areas.  
*[Sustainable Development, Energy Utilization]*
- **Remote Non-contact COVID monitoring System**  
IoT device that securely shares patients' real-time physical data with doctors.  
*[IoT, Cloud Service, Medical Electronics]*
- **Carbon Positive Electric Vehicle Concept**  
Battery management system of an e-vehicle that can harvest sustainable energy sources.  
*[Electronic Car, Solar Energy, Wind Power, Batteries]*
- **Sludge-Traversing ROV**  
To navigate sewers in order to find structural faults/cracks  
*[Arduino Nano, Embedded Sensors, Cloud Service]*

## SKILLS

- **Programming Languages**  
Verilog, C/C++, Python, HTML/CSS
- **Engineering Softwares/Tools**  
Xilinx Vivado, Proteus, PSpice, Mbed, Arduino IDE, Scilab, Cisco Packet Tracer, IBM Watson, Node Red

## CERTIFICATION

- **Training—Computer hardware and networking**  
*MSME Technology Development Centre, Govt of India.*
- **Geospatial Technologies for Archeological Studies**  
*IIRS-ISRO*
- **Data collection workshop for R&D projects**  
*Samsung Research Institute*

## AWARDS & RECOGNITION

- **Top 50 in Cloud-based Analog IC Design Hackathon**  
*Certified by IIT Hyderabad, 2022*
- **Second runners-up — "Toys for Autistic Kids"**  
*IUCEE Projects for Problem-based Learning, 2021*
- **Silver medal — Research Day 2022**  
*SRM Institute of science and technology, 2017*
- **Gobal student trainee — Schneider Electric**
- **Third runner up**  
*Milaap 2018*

## LEADERSHIP

- **Project leader**  
*Ricky Kids— Problem-solving based Research Team*
- **CPS- Electronics engineer**  
*SRM UAV*

## EDUCATION

- **B.E. Electronics and Communication Engineering — CGPA: 8.43/10**  
SRM Institute of Science and Technology, Chennai.  
*2019-2023 (exp.)*