Subhadeep Paul

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EnerBotS Lab, S:TC-9, Technology Complex, IIT Guwahati, Assam-781039, India.

Employment History

2022 – 2024 **Project Staff (Junior Research Fellow),**
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, India. Project title: *Prototyping Dog Jacket for Real-Time Rescue Operation Inspired by Robotics Technology*.

Education

2024 – *Present* **Ph.D., Dept. of EEE, IIT Guwahati** in System, Control, and Automation.
Thesis title: *Decentralized Coordination of Inverter Air-Conditioners for Virtual Energy Storage.*

2020 – 2022 **M.Sc. Electronics, Vidyasagar University, WB, India**.
Thesis title: *Remote Health Monitoring system using IoT*.

2017 – 2020 **B.Sc.(H) Physics, Kharagpur College, Vidyasagar University, WB, India**.

Research Publications

Journal Articles

1. **S. Paul** and T. K. Maiti, "Accurate Kinematic-Parameters Estimation Using IMU and GPS Sensors Fusion," *IEEE Sensors Journal*, vol. 24, no. 21, pp. 35 547–35 554, 2024. DOI: 10.1109/JSEN.2024.3460804.

Conference Proceedings

1. **S. Paul** and P. Barooah, "A Data-Driven Thermal Model of a Building with an Inverter-Based Air-Conditioner for Demand Dispatch," in *2025 Eleventh Indian Control Conference (ICC)*, IEEE, 2025, pp. 684–689. DOI: 10.1109/ICC69100.2025.11372385.
2. **S. Paul**, M. Maiti, D. Chowdhury, and S. Chandra Saha, "Design of a Cost-Effective Remote Health Monitoring System Using IoT," in *Proceedings of the 4th International Conference on Communication, Devices and Computing*, D. K. Sarkar, P. K. Sadhu, S. Bhunia, J. Samanta, and S. Paul, Eds., Singapore: Springer Nature Singapore, 2023, pp. 125–137, ISBN: 978-981-99-2710-4. DOI: 10.1007/978-981-99-2710-4_11.
3. J. Patel, H. Advani, **S. Paul**, and T. K. Maiti, "VLSI Implementation of Neural Network Based Emergent Behavior Model for Robot Control," in *2022 International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, Oct. 2022, pp. 197–200. DOI: 10.1109/DISCOVER55800.2022.9974734.

Skills

Languages Strong reading, writing and speaking competencies for English, Bengali, Hindi.
Coding Python, MatLab, C, C++, LaTeX.

Skills (continued)

IoT	Embedded Systems (Arduino, ESP8266/ESP32, Raspberry Pi); Sensor Interfacing; Communication Protocols (MQTT, Bluetooth, Wi-Fi, XBee).
Web Dev	HTML, CSS, JavaScript.
Misc.	Academic research, teaching and training, and LaTeX typesetting and publishing.

Achievements

2022
- **University Gold Medalist** — First Rank in M.Sc. Electronics, Vidyasagar University.
- **Qualified GATE exam**, in Electronics and Communication Engineering (EC).

Teaching Assistant

- **EE 557: Optimization**, AY: Jan-May, 2026.
- **EE 103: Basic Electronics Lab**, AY: July–Nov, 2025.
- **EE 102: Basic Electronics Lab**, AY: Jan-May, 2025.

Reviewer Information

Journals
- Measurement: Journal of the International Measurement Confederation.
- Journal of Engineering for Sustainable Buildings and Cities.