

Sajib Biswas

ABB Drive | Field Service Engineer (FSE)

Kolkata, West Bengal, India – 743248 | +91 6300144077 | aks.sajib@gmail.com | linkedin.com/in/Sajib-Biswas

PROFESSIONAL SUMMARY

Results-driven Field Service Engineer and Industrial Automation Specialist with 3+ years of hands-on experience commissioning, optimizing, and troubleshooting ABB LV/MV drive systems (ACS880, DCS880, DCT880, ACS580MV, ACS800) across heavy industries — including Steel, Mining, and Railways. Proven track record of deploying 400+ industrial drives at Tier-1 clients (Tata Steel, Jindal Steel, Rashmi Metaliks, Indian Railways), delivering zero-defect commissioning and measurable uptime improvements. Combines deep power-electronics expertise with cross-platform automation competency (PLC, SCADA, APFC, MCC/PCC panels) and Industrial IoT deployment (ABB Ability™ Smart Sensors). Currently advancing formal qualifications via B.Tech in Electrical Engineering (Swami Vivekananda University, Expected 2027).

CORE COMPETENCIES

- ABB Drive Systems (ACS880/DCS880/DCT880/ACS580MV/ACS800)
- LV/MV Variable Frequency Drive (VFD) Commissioning
- Drive Parameterization & Fault Diagnostics
- Power Electronics & Motor Control
- Root Cause Analysis (RCA) & Preventive Maintenance
- Multi-Vendor VFD Expertise (Siemens, Danfoss, Yaskawa, L&T)
- CFAT / CSAT & Site Acceptance Testing
- Railway Signalling & Interlocking (K5BMC)
- PLC Integration & SCADA Configuration
- MCC / PCC / APFC / PDB / LDB Panel Engineering
- Industrial IoT – ABB Ability™ Smart Sensors
- Energy Optimization (Fluxtron Systems)
- AutoCAD Electrical (2D & 3D) / Auto LISP
- High-Voltage T&D Systems – Transformers, Switchgear

PROFESSIONAL EXPERIENCE

ABB India Limited

(Authorized Service Provider: Unison Automation Technologies Pvt. Ltd.)

Field Service Engineer (FSE) | 2023 – Present | Bengaluru, Karnataka (Pan-India Deployment)

Responsibilities:

- Led end-to-end commissioning, startup, troubleshooting, and performance optimization of ABB LV/MV drive systems — including ACS880, DCS880, DCT880, ACS580MV, and ACS800 series — across large-scale steel, mining, and industrial process facilities.
- Specialized in erection, parameterization, fault diagnostics, and advanced repair of multi-vendor VFD systems (ABB, Siemens, Danfoss, Yaskawa, and L&T), ensuring seamless integration with PLC, MCC, PCC, APFC, PDB, and LDB panels while maximizing system reliability and minimizing downtime.
- Delivered expert-level field commissioning, root cause analysis (RCA), preventive maintenance planning, and full lifecycle technical support for complex drive and automation systems — maintaining compliance with IEC 61800, IEC 61511, and international safety standards including LOTO procedures.

Major Projects:

- Executed large-scale industrial automation and drive commissioning for Tata Steel and Rashmi Metaliks Limited, including ABB ACS880/DCS880 multidrive systems, conveyor/crane automation, Combi Mill commissioning, and deployment of 400+ drives with standardized parameterization to improve operational reliability and reduce downtime.
- Successfully led end-to-end commissioning of critical steel plant automation and drive systems for major projects at Jindal India Limited and Jindal Steel Limited, including ABB DCT880 DC drives, BOF tilt/ladder drives, precision speed-torque parameterization, and integrated automation systems in high-temperature industrial environments.
- MCPI Private Limited, Haldia (Industrial IoT): Implemented ABB Ability™ Smart Sensors and Fluxtron energy optimization systems, enabling real-time motor health monitoring and transitioning plant maintenance from reactive to predictive.

TVM Signalling and Transportation Systems Private Limited (TSTS)

Testing & Commissioning Engineer | 1 Year (2022 – 2023) | Bengaluru, Karnataka (Pan-India Deployment)

Responsibilities:

- Executed commissioning, testing, installation, and troubleshooting of Railway Signalling & Interlocking Systems — including relay installation, TVM systems, and interface circuits — for critical Indian Railways infrastructure projects.
- Performed CSAT, CFAT, customer acceptance testing, system integration, and fault diagnostics for railway signalling systems, ensuring compliance with operational, technical, and safety standards during both factory and site-level validation.

Major Projects:

- Indian Railways — K5BMC Interlocking System Commissioning: Commissioned K5BMC Railway Signalling & Interlocking Systems at Varanasi Junction, Adityapur Railway Station, Chhapra Junction Railway Station, and Prayagraj Junction Railway Station — validating 450 to 620+ operational routes per station through systematic route proving, relay testing, and interlocking validation.
- IRISET — K5BMC Virtual Station-8 System: Executed commissioning and acceptance testing of the K5BMC Virtual Station-8 simulation system at the Indian Railways Institute of Signal Engineering and Telecommunications (IRISET), Secunderabad, enabling national-level training infrastructure for next-generation signalling.

West Bengal State Electricity Transmission Company Limited (WBSETCL)

Apprentice Engineer – High-Voltage Transmission & Distribution | 1 Year (~2021 – 2022) | Kolkata, West Bengal

Responsibilities:

- Assisted in testing, operation, maintenance, and troubleshooting of high-voltage power transmission and distribution systems — including transformers, switchgear, protection relay systems, HT/LT panels, circuit breakers, control circuits, and substation equipment.
- Performed insulation resistance testing, relay protection monitoring, fault diagnosis, and supported power infrastructure upgrades while adhering strictly to electrical safety standards, LOTO procedures, and operational reliability protocols.

EDUCATIONAL QUALIFICATIONS

Qualification	Institution / Board	Year	Score (%)
B.Tech in Electrical Engineering (In Progress)	Swami Vivekananda University	Expected 2027	~81%
Diploma in Electrical Engineering	Birla Institute of Technology	2022	86.6%
Higher Secondary (H.S.)	West Bengal Board of Secondary Education	2018	61.2%
Madhyamik (Secondary Education)	West Bengal State Council of Technical Education	2015	73.5%

CERTIFICATIONS & SPECIALIZED TRAINING

- AutoCAD 2D/3D & Auto LISP Programming — L&T Construction (Industry Training Program)
- PCB Design & Fabrication — CSIR-Central Mechanical Engineering Research Institute (CSIR-CMERI) | Professional Certification
- ABB Drive Commissioning & Parameterization — Field Certified (ACS880, DCS880, DCT880, ACS580MV, ACS800 Series)

PERSONAL DETAILS

Date of Birth: 20 May 1999

Gender: Male

Languages Known: English,
Hindi, Bengali

Civil Status: Unmarried

DECLARATION

I hereby declare that all the information furnished above is true and correct to the best of my knowledge and belief. I accept full responsibility for the accuracy of the details provided.

Date: _____

Sajib Biswas