

# MOHAMED BADUSHA

B M S E N G I N E E R

+966-502838458  
+91-8248846486  
✉ mdbadusha@gmail.com  
📍 Al-Malaz, Riyadh, KSA

## PROFILE

Dynamic and detail-oriented BMS Engineer with over 10+ years of experience in the installation, testing, and commissioning of Building Management Systems across metro and commercial projects. Proficient in integrating HVAC, fire, lighting, and access control systems into centralized control platforms. Proven expertise in integrating, and optimizing BMS for energy efficiency and operational excellence. An analytical leader with excellent multitasking skills and a commitment to delivering high-quality results.

## WORK EXPERIENCE

### 2022 - PRESENT

- Webuild spa | Riyadh, Saudi Arabia
  - BMS Engineer** | Riyadh Metor Project-Line 3
    - Oversaw the installation and commissioning of BMS systems, ensuring system installation aligns with design specifications and project requirements.
    - Prepare the readiness reviews of the participating units, which are a mandatory preliminary to the systems tests
    - Conducted comprehensive point-to-point checks, field wiring terminations, and modifications to ensure all BMS components were correctly connected and integrated
    - Direct and guide the troubleshooting of problem issues to startup and keep equipment working properly.
    - Performed pre-functional checks, including point-to-point wiring checks, terminations, and device calibration.
    - Performed detailed system testing, including Factory Acceptance Tests (FAT), Site Acceptance Tests (SAT), and functional performance tests, to verify system compliance and operational readiness
    - Troubleshoot and resolve installation issues, making necessary adjustments for optimal system performance
    - Supported T&C team in IO testing, function testing, and system integration with SCADA.
    - Collaborated with project managers, contractors, and multidisciplinary teams to coordinate commissioning schedules and resolve interface issues
    - Supervises, coordinates, and reviews the work of assigned teams

## EDUCATION

### TAMILNADU POLYTECHNIC COLLEGE

- Diploma in Electronic & Communication Engineering

### J-TECH CISCO EDUCATION

- CCNA - Certified Network Associate

## CORE SKILLS

- BMS system installation & commissioning
- Project Management
- Project Coordination
- Team coordination
- Leadership
- Troubleshooting & diagnostics
- Low current Automation and control system integration.
- Testing & Commissioning (T&C)
- Coordination with MEP & Civil Teams
- Networking protocols (BACnet, Modbus)

## ■ 2019 - 2021

L&T – Larsen & Toubro | Riyadh, Saudi Arabia

**BMS Engineer** | Riyadh Metro Project-Line 3

## ■ 2014 - 2018

JBK Controls | Doha, Qatar

**ELV Engineer** | MSHEIREB Downtown Phase 1B

## ■ 2007 - 2013

ETA ASCON Groups | Dubai, UAE

**BMS Supervisor** | Dubai Metro Rail Project-RTA

- Supervised installation of BMS control panels and devices in environment control and tunnel ventilation systems.
- Installation of BMS field devices, including thermostats, pressure sensors, humidity sensors, actuators, relays, and controllers.
- Verified and ensured correct termination of control and signal cables as per I/O schedules.
- Monitored subcontractor activities to ensure compliance with drawings and quality standards.
- Coordinated with civil and electrical teams to ensure timely provision of sleeves, cable trays, and supports for BMS components.
- Performed point-to-point wiring checks, functional testing, and system calibration during installation and commissioning phases
- Commission BMS systems by verifying operational sequences, calibrating devices, and ensuring compliance with design and safety standards
- Performed loop checks, sensor calibration, and system validation.
- Conducted point-to-point testing of all BMS inputs and outputs to validate field device connectivity and function.
- Performed functional tests and logic verification for AHUs, CHW pumps, ventilation fans, and lighting control systems.
- Integrated third-party systems: Fire Alarm, Access Control, Lighting Control.
- Supported T&C team in IO testing, function testing, and system integration with SCADA.
- Updated red-marked as-built drawings for final approval.
  
- Review ELV system designs, drawings, and supervise site installation (Access control, fire alarm, public address, structured cabling, CCTV, BMS integration).
- Prepare and comparison of material take-off (MTO) and BOQ for ELV systems.
- Oversee cable routing, containment, termination, dressing, and labelling.
- Conduct pre-commissioning checks, continuity tests, and insulation resistance tests for ELV cabling.
- Prepare IR requests and coordinate with QA/QC for approvals.
- Prepare daily site reports and progress updates for the project team.

## LANGUAGES

- English – Fluent
- Arabic – Basic Working Knowledge
- Hindi / Tamil / Urdu – Fluent (if applicable)