CAPABILITY STATEMENT

Shakil Tanvir

Vice President · Cybernetics Hi-Tech Solutions (Pvt) Ltd
Technical Lead, Power and Energy · Spectrum Engineering Consortium (Pvt.) Ltd.
Dhaka, Bangladesh

I lead the strategy, team and engineering behind hardware products used worldwide, from design, firmware and protocols to sourcing and delivery, across energy, industry, defence and security.

SERVICES

End-to-End Product Development
From concept to production — I lead the whole journey.

Embedded Firmware
Reliable firmware built to industry and utility standards.

Hardware Design
Electronics designed for production, not just the lab.

Smart Grid & Metering
Utility-grade smart metering solutions.

Industrial IoT & Automation
Connecting machines, devices and data.

Secure Hardware
Devices that protect what matters.

Leadership & Consulting
Technical leadership when you need it.

INDUSTRIES

Utilities and smart metering
Smart meter firmware, DCU interfacing, HES and MDM integration for AMI projects.

Industrial automation and motor control
Modbus-based controllers, retrofit devices and automation hardware.

Robotics
Real-time multi-node control and communication for field robots.

Secure hardware
Air-gapped devices and secure signers.

Electronics manufacturing
Prototyping, PCB assembly and an in-house SMT pick-and-place system.

WAYS TO WORK TOGETHER

Technical partner
For utility, AMI and smart-energy tenders and integrations.

OEM / white-label development
Firmware and hardware developed under your brand.

Consulting retainer
Ongoing advice on protocols, AMI and embedded architecture.

Joint R&D and prototyping
With manufacturers, and industry-academia projects.

Venture partnership or investment
Partners and investors for Creative Factory products.

PROOF

Led firmware development for a military-grade EOD ROV deployed in UN operations

Leading my team at Cybernetics in developing a prepaid smart meter in Bangladesh, now heading into IEC type testing

Founded and lead the embedded systems engineering division at Cybernetics

Mentored 30+ interns and engineers across Creative Factory and Cybernetics

DCU-HES integration, gap analysis, and DCU and meter testing for utility AMI projects

Modbus-based motor controller for EBabutzky GmbH, Germany

Best Technical Presentation of the Session, ICCIT 2024

Open-source Modbus Workbench
github.com/shakiltanvir/modbus_desktop_tool_opensource

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