



# Md. Golbar Hossain Shrabon

Multidisciplinary Engineer | New Product Development & Industrial Automation Expert ☐  
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## Executive Summary

Results-oriented **Electrical Engineer** and **Senior Python Programmer** with over **9 years of experience** specializing in the design, development, and transition of complex systems into production. Expert in **New Product Development (NPD)**, industrial automation, and **ERP system architecture**. Proven track record in implementing energy-saving solutions and lean manufacturing workflows that reduce operational costs by up to **27%**. Dedicated to driving innovation in export-oriented manufacturing environments.

## Core Competencies

- **New Product Development (NPD):** Proficient in the full product lifecycle, from initial research and prototyping to full-scale manufacturing transition.
- **Process & Manufacturing Engineering:** Expert in evaluating manufacturing workflows, equipment layout, and designing process flows to improve operational efficiency.
- **Systems Integration & ERP:** Advanced knowledge of Python, FastAPI, and SQL for developing custom ERP/MRP modules to track production KPIs and inventory.
- **Project & Financial Management:** Experienced in RFQ management, budgeting, and sourcing materials and machinery for new industrial projects.
- **Technical Design:** Highly proficient in **AutoCAD** for electrical and mechanical design, prototyping with Arduino (C++), and HMI visualization.

## Professional Experience

- **GNS Engineering & Services Ltd** | CEO *Jan 2024 – Present*
  - Leading strategic project execution and construction initiatives, focusing on feasibility, commercial viability, and profitability.
  - Managing foreign and local procurement, ensuring the right materials and machinery are sourced for high-spec engineering requirements.
- **Energy Control & Engineering Ltd** | Manager *Nov 2023 – Jun 2024*
  - Managed 6 major projects focused on industrial automation and the design of new industrial electrical systems.
  - Developed Standard Operating Procedures (SOPs) to improve the effectiveness of new business initiatives and operational performance.

- **Automation Engineering & Controls Ltd** | Manager (Automation) *Oct 2022 – Oct 2023*
  - Modernized manual machinery into fully automated systems through advanced PLC programming and logic solutions.
  - Evaluated existing manufacturing processes to identify areas for value addition and improved efficiency.
  
- **GREN Automation Engineering Ltd** (Shamol Group) | Sr. Automation Engineer *Sep 2019 – Sep 2022*
  - Executed 11 complex automation projects, specializing in system architecture and integrated control logic.

## Key Projects & Accomplishments

- **Operational Efficiency (Grameen Feed Ltd):** Upgraded automation systems reducing energy consumption by **25-27%**, directly improving profitability.
- **System Re-Design (The Aristocrat Agro Ltd):** Led the complete electrical erection and SCADA re-design for multiple feed mills, optimizing production flow.
- **Advanced Control (TK Group):** Orchestrated DCS system upgrades and control panel setups for complex circular knitting machinery.

## Education & Certifications

- **B.Sc. in Electrical & Electronics Engineering** | Green University of Bangladesh (2016)
- **Diploma in Mechanical Engineering** | Kushtia Polytechnic Institute (2012)
- **Certification:** Advance Python and ML | Sanford Institute of Technology (2020)

## Technical Skills & Languages

- **Design Tools:** AutoCAD (Electrical/Mechanical), Solid-state logic design, Python, C++, SQL.
- **Manufacturing Tech:** PLC (Siemens, Mitsubishi), SCADA (MC-WORX, WinCC), HMI Design, VFD integration, and Servo Drives (Panasonic Minas).
- **Languages:** Bangla (Native), English (Professional Working Proficiency), Hindi (Conversational).