

# MD ARSHAD RASHID SHAON

Los Angeles, California | [shaon.arshad@gmail.com](mailto:shaon.arshad@gmail.com) | Phone: 562-387-8565 | [www.arshadrashid.com](http://www.arshadrashid.com)

Experienced professional with over 5 years in electrical engineering and 4 years in supply chain management, with a proven ability to deliver results and solve complex problems in both technical and business environments.

## EDUCATION

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University of Nevada Las Vegas, Las Vegas, Nevada, USA <b>Master of Science in Electrical Engineering</b>	August 2021 - August 2024 GPA <b>3.71/4.00</b>
University of Dhaka, Dhaka, Bangladesh <b>Master of Business Administration in Management Information Systems</b>	May 2013 - August 2016 GPA <b>3.66/4.00</b>
Ahsanullah University of Science and Technology, Dhaka, Bangladesh <b>Bachelor of Science in Electrical and Electronic Engineering</b>	November 2007 - December 2011 GPA <b>3.32/4.00</b>

## TECHNOLOGY SKILLS

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**Programming Languages:** Ladder Logic, Python, MATLAB, C++

**Operating Systems:** Windows

**Hardware Tools:** PLC (Allen-Bradley Compact Logix), Inverter, Converter (Buck/Boost), Arduino UNO, Raspberry Pi

**Software Tools:** LTSpice, BEopt, System Advisor Model (SAM), OpenDSS

**Design Software:** AutoCAD (2D), Adobe Photoshop

**Management Tools:** ERP (Oracle), MS Office

## TRAINING & CERTIFICATIONS

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Programmable Logic Controllers (PLC): Automation - Level 1 & 2: Southern California Edison (4-Day Workshop)

- *Momentary Motor Control, Controls in Series, 3-Wire Control, Electrical Interlock, Timers, Counters, Motor/Pump Controls*

Crash Course on Python by Google: Coursera (Duration: 6 Weeks)

Python Data Structures: Coursera (Duration: 6 Weeks)

Programming for Everybody - Getting Started with Python: Coursera (Duration: 7 Weeks)

Total Productive Maintenance (TPM): Bangladesh-Japan Training Institute (Duration: 1 Day)

AutoCAD (2D): Engineering Staff College, Bangladesh (Duration: 6 Weeks)

## WORK & LEADERSHIP EXPERIENCE

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**Graduate Research Assistant, University of Nevada Las Vegas, Las Vegas, Nevada** August 2021 – May 2024

- Collaborated with various stakeholders (UNLV, UNR, NV Energy) on a \$3M *Department of Energy* project to optimize residential solar PV, battery energy storage, and HVAC systems for cost reduction and grid services
- Conducted comprehensive analysis of large historical datasets to forecast solar irradiance and residential load, leveraging advanced tools such as PVlib Python and Facebook Prophet to enhance prediction accuracy

**Intern, AIRSPOOL LLC, Las Vegas, Nevada** May 2023 - August 2023

- Investigated control circuits in solar-hybrid ACs, focusing on components like Buck-Boost converters, Op-Amps, ICs, and MPPT
- Gained hands-on experience with IoT, Arduino UNO, and Raspberry Pi.
- Co-developed a battery system to store excess solar energy for solar-hybrid ACs.
- Developed working relationships with potential foreign suppliers for solar-hybrid ACs and components

**Executive, Supply Chain, M. M. ISPAHANI LIMITED, Dhaka, Bangladesh** November 2016 - December 2018

Promotion to **Senior Executive** January 2019 - December 2019

Promotion to **Assistant Manager** January 2020 - January 2021

- Led a 5-member team on various projects, including the installation of a \$550K auto rice mill, grain silo, ETP, and capital machinery
- Supervised the supply and installation of different power systems, including a 2000 KVA substation, 2 MW gas generator, diesel generators, and off-grid solar panels
- Reduced machine downtime by 3% through effective planning and timely delivery of spare parts
- Increased organization's profit by 1.8% through strategic negotiation, identifying skilled suppliers, and accurately forecasting spare parts demand

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**Assistant Manager, A. N. Woven Bulk Bag Industries Ltd., Narayanganj, Bangladesh**

February 2012 - March 2014

- Managed a 12-member Operation & Maintenance team overseeing the upkeep of machinery, including gas and diesel generators, centrifugal chillers, air conditioning systems, water and hydraulic pumps, AC/DC motors, VFD, and off-grid solar PV systems
- Achieved a 2% increase in productivity by reducing average machine downtime from 2.1 hours to 1.2 hours through the implementation of preventive and corrective maintenance strategies
- Automated a manual system in the manufacturing process by applying expertise in electrical device switching (normally open and normally closed) and integrating magnetic contactors, magnetic relays, and electrical timer relays

## PUBLICATIONS

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- M. A. R. Shaon and Y. Baghzouz, "Day-Ahead Residential Customer Load Forecasting Using Prophet", 2023 IEEE International Conference on Environment and Electrical, Madrid, Spain
- M. A. R. Shaon and Y. Baghzouz, "On the accuracy of open-source and commercial solar forecasting tools", 2022 International Conference and Utility Exhibition on Energy, Environment and Climate Change (ICUE), Pattaya, Thailand
- M. A. R. Shaon and Y. Baghzouz, "Customer Bill Management Using Thermal and Virtual Electricity Storage," 2022 20th International Conference on Harmonics & Quality of Power (ICHQP), Naples, Italy
- J. Johnson, M. A. R. Shaon and Y. Baghzouz, "Improved RC Model of Air Conditioning Load—A Case Study," 2023 IEEE PES Innovative Smart Grid Technologies Europe (ISGT EUROPE), Grenoble, France.

## SKILLS & AFFILIATION

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- Leadership skills
- Communication skills
- Teamwork and collaboration skills
- Time management skills
- Attention to detail
- Problem-solving and critical-thinking skills
- Adaptability and flexibility
- Analytical skills
- Interpersonal skills
- Project management skills
- Creativity
- Innovation skills

**Language:** English, Bangla (Native)

**Membership:** Student Member of Institute of Electrical and Electronics Engineers (IEEE)

Member of Institution of Engineers, Bangladesh (IEB)

## EXTRACURRICULAR

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**Volunteer, HELP of Southern Nevada**

2023 - Present

- Setup and distributed food to the community of Shannon West Homeless Youth Center (SWHYC)
- Kept dining and kitchen area of SWHYC clean and organized