

IRFAN AHMED

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Address: S. Norbury Ave, Lombard, IL 60148

Work Authorization:

- U.S.A. Citizen

Professional Summary:

Electrical and IT Engineer with 10+ years of experience in operations, maintenance, and project management across transportation and infrastructure sectors. Skilled in SCADA, MMIS, and preventive maintenance, with hands-on expertise in troubleshooting and system optimization. Proficient in Python, data analysis, and machine learning, with a strong foundation in software development. Known for leading cross-functional teams, improving system reliability, and ensuring safety compliance. Currently pursuing an MS in Computer Science to deepen expertise in AI and automation.

Education:

Master of Science in Computer Science

Merrimack College, North Andover, MA

Expected Graduation: Spring 2026

Bachelor of Science in Electrical Engineering

Hajvery University, Lahore, Pakistan

2008- 2012

Technical Skills:

- Python, SQL, Java, C++
- Advanced Programming Concepts
- Software Design and Documentation
- System and Languages Survey
- Automation & Decidability
- Artificial Intelligence (AI)
- Data Analysis & Visualization
- Database Principles & Management
- Advanced Programming Concepts
- Overhead Crane Operation
- Electrical Engineering (LV Panels, SMDB, DB)
- HVAC Systems, Fire Alarm Systems, Pumps
- Facility Management & Maintenance
- Engineering Documentation & Drawings
- MMIS (Maintenance Management Information System)
- SCADA Systems & Availability Reporting
- Risk Analysis & Failure Trend Identification
- Preventive Maintenance Planning
- Troubleshooting & Root Cause Analysis
- SCADA, MMIS, STIP, DOA Reports
- Electrical Testing (Continuity, Isolation)
- Fire Detection & Alarm Systems

- Safety Protocols
- Transfer, Booster, and Sump Pumps

Work Experience:

Operations and Maintenance Engineer. Jan. 2021 – Present

ATLANTA AIRPORT SKY TRAIN

Atlanta, GA, USA

- Provide oversight for all technical issues related to the APM systems.
- Record the maintenance activities on all systems in the Maintenance Management Information System (MMIS) and ensure that preventive maintenance activities comply with recommended schedules.
- Troubleshoot system problems, identify causes, develop repair plans, and communicate plans to technical staff.
- Perform failure analysis on APM systems as necessary. Review failure reports, identify trends, and develop processes to alleviate and minimize recurring failures.
- Coordinate with the MHIA engineering department staff to resolve technical issues requiring documentation or drawing changes to ensure consistency throughout the organization.
- Ensure employees and subcontracted employees are fully trained to perform assigned tasks. Monitor work as necessary to assess skill levels that have been achieved, including the safe use of equipment and techniques.
- Communicate recommended or mandated changes in procedures or maintenance activities to technical and supervisory staff. Identify the need for and facilitate additional training as procedures change.
- Schedule and monitor assigned technicians, subcontracted employees, and subcontractors' work to facilitate.
- SCADA. Availability reports. DOA reports. STIP reports. DOWNTIME events report. Shifts report.

ELECTRICAL ENGINEER Jan. 2017 – Dec. 2019

JUPITER EMC LLC.

Abu Dhabi, United Arab Emirates

- Completed maintenance work for lighting projects.
- Read and analyzed building drawings.
- Reviewed and reported on safety measures and workplace incidents, spearheading committees and initiatives driving vital change in workplace environments.
- Operated overhead crane.
- Maintained elevators.
- Prepared work method statements and risk assessments and analyzed the scope of engineering work.
- Obtained documents, clearances, certificates, and approvals from local, state, and federal agencies.
- Regularly reviewed, updated, and communicated changes in policies and procedures, implementing training to increase regulation awareness and compliance among staff.

ELECTRICAL ENGINEER Jan. 2015 – Jan. 2017

TGCSS LLC

Abu Dhabi, United Arab Emirates

- Completed maintenance and rectification of fire alarm systems and firefighting systems.
- Performed in-depth electrical acceptance testing of completed hardware, including continuity and high-potential isolation testing.
- Assisted staff members with hazard and incident reporting protocol as needed.
- Acted as a visible and available health and safety resource in the field by consulting with staff, modeling safe behaviors, and encouraging model behaviors.

ELECTRICAL ENGINEER

Jan. 2012 – Jan. 2015

EMRILL SERVICES LLC

Abu Dhabi, United Arab Emirates

- Monitored installation and operations to meet rigorous customer requirements consistently.
- Applied principles of electrical theory to advance and improve product development and efficiency.
- Performed in-depth electrical acceptance testing of completed hardware, including continuity and high-potential isolation testing.
- Installed and maintained transfer, booster, and sump pumps.
- Test and maintain all LV panels for improvement, SMDB, and DB.
- Completed maintenance of Fire Detection and Alarm System.