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**Current Employer:**

American University, Washington DC, (Since 1999)

**Current Position:**

Asst. Chief Operating Engineer

(Managerial/Supervisory Position within Facilities/Building and Power Plant Operation)

**Areas of Expertise:**

Management and operation of power plants (Boilers, Chillers and Generators), HVAC systems in commercial buildings and university facilities in compliance with most current environmental, OSHA, and other regulatory requirements under Federal and District of Columbia regulations.

**Total years of experience in the trade:** 25 plus**Educational Qualification - Academic**

- Master's and Bachelor's Degrees (M.S. & B.S.) in Environmental Management (University of Maryland UC – State of Maryland)

**Educational Qualification - Vocational**

- Design, Operation, and Maintenance of Building Systems (Building Owners and Manager's Institute (BOMI) USA)
- Boiler-Heating system-Applied Math (Building Owners and Manager's Institute (BOMI) USA)
- Class 1 Steam Plant Operation and Maintenance Course (National Association of Power Engineers (NAPE) USA)
- Supervisor's Toolkit Course (Association of Physical Plant Administrators of Universities and Colleges. (APPA) USA)
- Diploma in Refrigeration and Air Conditioning (Polytechnic, Colombo, Sri Lanka)
- Operation Insight for Personal Computers (Siemens Technology)
- Continue..... (A full list of training and certification, provided by American University, is available under American University Employee Training Management Division)

**Licenses:**

- 1<sup>st</sup> Class Steam Engineer - District of Columbia (DC)
- 1<sup>st</sup> Grade Stationary Engineer - State of Maryland (MD)
- Chief Engineer - National Institute of Uniform Licensing of Power Engineers (NIULPE)

**Certifications:**

- LEED Green Associate from U. S. Green Building Council (USGBC)
- CFC (Universal) from Environmental Training Group - registered under U.S. EPA
- District of Columbia Underground Storage Tank (UST) Class A/B Operator Certification
- Building Automation Certification (Siemens)

- Confine Space Entry Certification
- Swimming Pool Operator Certification
- Continue ..... (A full list of training and certification, provided by American University, is available under American University Employee Training Management Division)

**Memberships:**

- Member - American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE)
- Member - National Fire Protection Association (NFPA)
- Member - Building Owners' and Managers' Institute (BOMI)

**Current Work Experience and/or Responsibilities:**

- Manages, supervises, directs, and coordinates, the work of licensed Steam Engineers, Operating Engineers and other trade staff within the Central Plant and the University's Facilities Operation in the inspection, efficient operation, maintenance, and repair of campus thermal systems, related plant equipment, water treatment systems as well as maintenance and repair of campus domestic water & sewer distribution systems, and campus gas utility distribution systems within the domain of the Facilities Management Division.
- Manage Environmental and Regulatory compliance involved in plant emissions and operational safeties.
- Resolve facility issues and customer concerns while ensuring good public relations and department image through personal contacts and assurance of quality standards to provide exceptional customer service, and a safe, functional, clean, efficient and attractive living and learning environment.
- Performs strategic planning and implements initiatives for increasing efficiency and reliability of managed systems.
- Develops, implements, and seeks continuous improvement of department standards and procedures.
- Performs facilities commissioning activities (e.g. reviewing of new or upgraded utility systems to ensure that operational, maintenance, repair, and energy efficiency impacts on the Central Plant Operations and Energy and Engineering units are minimized).
- Prepares performance appraisals and counseling of assigned personnel in order to provide a level of performance evaluation and a sense of direction of the department to the employee.
- Manages the performance of Central Plant Operation staff through documented planning and feedback using of the LMS (Learning Management System).
- Prepares accident/incident reports and documentation for recommended corrective actions related to the Staff HR Policy manual.
- Coordinates training and evaluation of assigned personnel in order to ensure our efforts are combined in an efficient system of well defined, reliable processes focused on preventing facility problems and exceeding

customer expectations. Manages the development of Central Plant Operation staff through the use of the IDP (Individual Development Program) and the LMS (Learning Management System) and trains staff with regards to the aforementioned systems.

- Responsibilities also include intense involvement in Chief Engineer's role/responsibilities during majority of the work load as a unique expectation of the organization.

### **Previous Work Experience and/or Responsibilities:**

Position - Lead Operating Engineer, January 1999 to August 1999

Employer - Hines Interest Ltd., Rock Spring Park, Bethesda, MD

Type of business – Property Management

- Operates assigned building with approximately 2-4 Maintenance Engineers
- Assigns daily work assignments to staff being supervised
- Monitors building equipment via computerized Building Automation System (BMS)
- Changes and/or adjusts parameters in programming language to suite the operational needs
- Makes changes in load shedding program for energy conservation during peak demand hours
- Sets up time of day program to increase the operating efficiency by allowing only essential equipments to operate
- Handling PM program using computerized work order management system
- Analyzes and/or performs water treatment and makes adjustments as needed
- Coordinating with contractors and manufacturers
- Reviewing and discussing of proposals and manufacturer's literature pertaining to operational work.
- Maintains and controls assigned operational budget.

Position – Maintenance Engineer/Operating Engineer/Asst. Chief Engineer, June 1994 to Nov. 1998

Employer - Hines/Carr America, Chevy Chase Pavilion, Washington DC

Type of business – Property Management

- Oversees the operation of one million square feet building which includes an office tower, retail space (shopping mall), Embassy Suites Hotel, and multi-level underground parking garage.
- Handles repairs, maintenance, and trouble shooting of all building equipment - chillers, air handlers, VAV boxes (variable air volume) and variety of other building equipments
- Participates in construction meetings and handles associated construction - tenant's space renovation, capital improvement projects, etc.
- Supervises of employees/engineers as well as evaluates and appraises their performances
- Oversees fire safety testing as required by the fire code; fire drills, testing of smoke detectors, sprinkler system, and other fire safety devices conducted by professional contractors.
- Monitors water chemistry and oversees water treatment processes for open and closed loops

Position - Air Conditioning Technician, October 1984 to July 1993

Employer - Emirates Telecommunication Corporation (Etisalat - Previously known as Emirtell) Dubai, United Arab Emirates

- Performs installations, repairs, periodical maintenance, and trouble shooting on variety of air conditioning systems - centrifugal chillers, cooling towers, split units, package units, rooftop units, window units, dehumidifiers, and so forth
- Repairs, replaces, and overhauls compressors and charge refrigerant for chillers ranging from large to small capacity.
- Designs and fabricates electrical control panels for variety of functions such as automatic change over function, lead-lag function, and safety interlock function.
- Performs maintenance on motor control centers such as replacing heavy duty multi pole contactors, inspecting and tightening loose lugs as necessary
- Verifies proper function of mechanical and electrical interlock devices associated with Y-Delta transition contactors
- Performs welding and brazing work to fabricate mounting brackets and necessary copper tubing for air conditioning installations
- Performs electrical installation associated with air conditioning installation, i.e. install conduits and control panels, pull electrical cables, reads schematic diagrams and identifies all the electrical components provided by manufacturer and field installation required by the installer
- Performs final commissioning on split unit installation,
- Participates in final commissioning of large chiller and/or cooling tower installations
- Performs water treatment for chilled and condenser water system (open and close loops)