

# Robert Kurilla

## Senior I&C Engineer, Various Refinery Projects

Hatfield, PA - Email me on Indeed: [indeed.com/r/Robert-Kurilla/38d0bb7d08c00105](https://indeed.com/r/Robert-Kurilla/38d0bb7d08c00105)

Engineering Manager with 8 years' experience in managing multi-discipline teams in performance of power plant (nuclear and fossil fueled) related work. Excellent background in I&C discipline including both engineering and technical positions. Served 6 years in the US Navy, completing the Nuclear Power Training - Prototype and Electronics Technician programs. Reestablished client confidence in company performance by leading a multi-discipline team in the recovery of a troubled project involving the engineering and replacement of a distributed control system. Expertise includes:

- Project Management • Nuclear Power
- Customer Centered • Instrumentation & Controls
- Human Factors & Performance • DCS & PLCs

Authorized to work in the US for any employer

## WORK EXPERIENCE

### Senior I&C Engineer, Various Refinery Projects

Orbital Engineering Inc - Bensalem, PA - 2014 to 2015

- Supervised all project I&C personnel, a total of 10. Assigned tasks and established priorities.
- Provided work estimates and established budgets and schedules.
- Maintained client relations and responded quickly to changes in project needs.
- Initiated change requests to recover cost increase resulting from scope of work increases.
- Ensured technical adequacy of all I&C specifications, drawings and other deliverables.

### Project Engineering Manager

URS Engineers & Constructors - 2006 to 2014

Managed multi-discipline groups of engineers and designers in the performance of power plant design and modifications. Projects included: Exelon, Progress Energy, Mitsubishi Heavy Industries, General Atomics, General Electric and Tooele Chemical Demilitarization Facility.

- Managed a technical review of approximately 100 nuclear plant safety reviews. Developed an evaluation and reporting system that was adopted as the standard for other organizations performing similar tasks.
- Reviewed a portfolio of projects, developing common procedures, standards and project execution documents, such as reports, proposals, schedule formats and execution plans resulting in streamlined project execution and increased quality of engineering packages.
- Coordinated response efforts of a Nuclear Regulatory Commission design review. This effort involved the production of reports, design analysis, calculations and other engineering services valued at over \$15 million total requiring proposal, budget, scope, engineering, schedule, and cost/change control efforts.
- Managed all engineering tasks for the development of a conceptual design for the General Atomics SC-MHR Reactor Plant with an engineering budget exceeding \$8.3 million. The primary focus was on the improvement of the previous concept and development of a 3D model of the complete plant site with the use of the Smart Plant tool suite.
- Managed all engineering tasks for the development of the generic nuclear island design for the Generation III+ Boiling Water Reactor Nuclear Steam Supply System with an engineering budget exceeding \$200 million.
- Developed a detailed level 3 schedule, for the engineering, design and construction phases of the project, reducing the project time line by 60%.

- Performed on-site project management for a portfolio of nuclear plant modification projects with a budget exceeding \$5 million.
- Tracked all deliverable items (equipment and documentation) while meeting a shifting project schedule. The project finished within the final schedule and under budget.
- Maintained client relations to respond quickly to changes in project needs.

URS Engineers & Constructors - Princeton, NJ - 1990 to 2014

### **Supervising I&C Engineer**

URS Engineers & Constructors - 2000 to 2006

Assumed control of a project's I&C personnel with 60% budget expended and deliverables not meeting technical requirements. Provided all deliverables within budget and meeting technical requirements.

- Supervised performance of all I&C engineers and designers.
- Prepared various project related documents such as schedules, estimates and budgets.
- Coordinated with other disciplines, to ensure consistency and timeliness of project deliverables.
- Maintained client relations and responded quickly to changes in project needs.
- Supervised preparation of P&ID, Loop and equipment installation detail drawings.
- Ensured technical adequacy of all I&C specifications, drawings and other deliverables.

### **Specialist**

URS Engineers & Constructors - 1990 to 2000

Performed on-site construction management and engineering support for the installation of several CEM systems and related equipment. This involved coordination of installation contractors, resolving construction issues and meeting site-specific safety requirements.

- Performed feasibility studies involving system location suitability, required modifications, regulatory requirements, and technical merits of various approaches to the installation of different types of CEM systems.
- Prepared specifications, supplier selections and bid analysis for the procurement of: DCS, PLC, CEM systems and instrumentation normally utilized in a utility environment.
- Designed interlock and control logic utilized in burner firing controls and balance of plant systems in both software and hard wired systems.
- Designed control panels for human-machine interface to DCS's and PLC's, also providing for local control functions.
- Designed steam & water analysis panels for nuclear and fossil fueled power plants.
- Performed acceptance tests for various DCSs, PLCs, control panels and packaged subsystems.
- Provided field engineering assistance for the installation, start up and troubleshooting of various types of instrumentation and packaged subsystems including precipitators, scrubbers and hydraulic units.
- Received numerous appreciation letters from clients for efforts performed on their behalf, including the WSRC Total Quality Achievement Award.

## **EDUCATION**

### **M.S. in Nuclear Engineering**

Pennsylvania State University

### **B.S. in Electronics Engineering**

University of Scranton

Nuclear Power and Prototype School, Electronics Technician School

## CERTIFICATIONS

**PMP**

**PE**